# Texas Commission on Environmental Quality Remediation Division Correspondence Identification Form

	SITE & PROGRAM AREA IDENTIFICATION													
		SITE	LOCATI	ON		<b>REMEDIATION DIVISION PROGRAM AND FACILITY</b>								
						IDENTIFICATION								
Site Name:	Frisco	Com	nunity Dev	elopment (	Corporation	Is This Site Bei	ng Managed Un	der A State Lead Contract?						
	Site					Yes	🔽 No							
Address 1:	7471 (	Old Fif	fth Street			Program	IHW CORR	ECTIVE ACTION	Ŧ					
						Area:								
Address 2:						Mail Code:	MC-127							
City: Frise	:0			State:	Texas	Is This A New	Site To This Pro	gram Area?						
						Yes	🔽 No							
Zip Code:	75034		County:	Collin	-	TCEQ Facility	ID No.:	SWR 30516						
TCEQ Regio	on:	Regi	ion 4 - Dalla	as/Fort Wo	rth	Leave This Field BlankLeave This Field Blank								

	DOCUMENT(S) IDENTIFICATION											
PF	IASE OF REMEDIATION	DOCUMENT NAME										
1.	ASSESSMENT	GROUNDWATER (OR OTHER MEDIA) MONITORING REPORT	•									
2.	<b>•</b>		4									
3.	▼		•									
4.	•		Ŧ									
5.	▼		-									

	CONTACT INFORMATION														
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	TCEQ INTERNAL USE ONLY													
Document No.	TCEQ Database Term	Document No.	TCEQ Database Term											
1.	<b>GW/MEDIA MONITORING RPT</b>	4.												
2.		5.												
3.														



# REPORT

# 2023 Second Semiannual Groundwater Monitoring Report

Class 2 Landfill North CAMU - 3rd and 4th Quarter Events Frisco Community Development Corporation Site 7471 Old 5th Street, Frisco, Texas, TCEQ SWR No. 30516 and Hazardous Waste Permit No. 50206

Submitted to:

# Mr. Mack Borchardt

City of Frisco 6101 Frisco Square Boulevard Frisco, Texas 75034

Submitted by:

# WSP USA Inc.

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20409062.001

January 19, 2024

# **Distribution List**

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# APPENDIX C

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# **1.0 INTRODUCTION**

WSP USA Inc. (WSP), is pleased to submit this report summarizing third and fourth quarter 2023 groundwater monitoring activities for the Class 2 Landfill North Corrective Action Management Unit (hereafter, the Landfill or North CAMU) located at the Frisco Community Development Corporation (Frisco CDC) Site located at 7471 Old 5th Street, Frisco, Collin County, Texas (Site). This report summarizes groundwater sampling methods, laboratory analyses and results for groundwater monitoring which was conducted in general accordance with the Revised Class 2 Landfill Groundwater Monitoring Plan (Monitoring Plan), by Pastor, Behling & Wheeler (PBW), dated July 31, 2013 [1], the Texas Commission on Environmental Quality (TCEQ) Approval with Modifications, dated April 4, 2014 [2] and subsequent correspondence with the TCEQ. The Site is currently regulated by the TCEQ Industrial and Hazardous Waste – Corrective Action (IHW-CA) Program under Solid Waste Registration (SWR) No. 30516 and Hazardous Waste Permit No. 50206.

# 1.1 Site Description

A location map of the Landfill is provided as Figure 1. The locations of the groundwater monitoring wells in the Landfill vicinity are shown on Figure 2. Initial notification for construction of an on-site Class 2 industrial landfill, including engineering plans and a landfill operations plan, was provided to the Texas Natural Resource Conservation Commission (TNRCC) by GNB Technologies, Inc. in August 1995. TNRCC acknowledgement of receipt and review of the notification was provided in a September 14, 1995, letter. Landfill construction commenced thereafter, and Site records indicate that the Landfill operations began in 1996. The Landfill currently consists of fifteen cells, nine of which (cells 1 through 9) have been closed and capped. The closed cells of the Landfill consist of treated slag monofills [1]. The active cells of the Landfill currently contain treated slag, but also contain Class 2 wastes generated during the demolition and remediation activities at the Site [1] and remediation activities at the Undeveloped Buffer Property (UBP) initiated in early 2017. In June 2018, a temporary cover was installed at the Landfill following completion of remediation activities at the UBP.

# 1.2 Uppermost Groundwater-Bearing Unit

The uppermost groundwater bearing unit (GWBU) in the vicinity of the Landfill consists of clay-rich alluvial soils of Quaternary age situated unconformably above the Late Cretaceous age Eagle Ford Formation [1]. As indicated in boring logs for the groundwater monitoring wells surrounding the Landfill, the Eagle Ford Formation occurs at depths ranging from approximately 14 to 24 feet below ground surface (bgs). Groundwater within the upper GWBU generally occurs under unconfined conditions at depths between approximately 10 and 25 feet bgs. Monitoring well locations are shown on Figure 2.

# 1.3 Monitoring Well System

The current monitoring well network for the Landfill consists of eleven monitoring wells. Based on the groundwater potentiometric surfaces shown on Figure 3 and Figure 4 and the projected groundwater flow paths near the Landfill, the Landfill groundwater monitoring network can be classified as follows:

- Up-gradient monitoring wells: PMW-19R and MW-45
- Cross-gradient monitoring wells: LMW-8 and LMW-9R
- Down-gradient monitoring wells: LMW-5, LMW-17, PMW-20R, LMW-21, LMW-22, MW-41, and MW-47

Well construction information for these wells is summarized in Table 1 and Table 2.

# 2.0 FIELD SAMPLING ACTIVITIES

# 2.1 Groundwater Sampling

Eleven monitoring wells included in the Landfill monitoring well network, MW-45, PMW-19R, LMW-9R, LMW-8, LMW-17, LMW-22, LMW-5, LMW-21, PMW-20R, MW-41 and MW-47 were sampled during the third and fourth quarter sampling events.

Prior to sampling, monitoring wells were inspected and the condition of the protective covers, concrete pads, riser pipes and well caps were recorded on monitoring well inspection forms, which are included in Appendix A. Next, monitoring well depths to water and total well depths were noted on field forms, and summarized on Table 1 for the third quarter event, and Table 2 for the fourth quarter event. The electronic water level probe was decontaminated with Alconox® solution and a distilled water rinse prior to use and between sampling at each monitoring well.

The monitoring wells were then purged until stabilization parameters (temperature, pH, and specific conductivity) were within 10% on three consecutive readings or three well volumes had been removed from the monitoring well. Monitoring wells were purged using a peristaltic pump and new polyethylene tubing at each sample location. A flow rate of less than 0.4 liters per minute was sustained during purging. Groundwater sample collection forms are provided in Appendix B.

After purging was completed, groundwater samples were collected using a peristaltic pump with new polyethylene tubing. Groundwater sampled for dissolved metals analysis was field filtered using disposable (one-time use) 0.45-micron filters and transferred into laboratory-supplied containers pre-preserved with nitric acid. Groundwater sampled for total metals analysis was collected into laboratory-supplied containers pre-preserved with nitric acid directly from the pump discharge tubing. One duplicate sample and one matrix spike/matrix spike duplicate (MS/MSD) sample was collected for Quality Assurance/Quality Control (QA/QC) during the sampling events.

After collection in the field, groundwater and QA/QC samples were labeled with the sample identification number, requested analysis, collection date and sampler's initials and placed on ice in a cooler and shipped by WSP under chain-of-custody protocol to the ALS Environmental Laboratory (ALS) in Houston, Texas, via FedEx overnight transport, for analysis of dissolved and total metals by USEPA SW-846 Method 6020A. Arsenic, cadmium, lead, and selenium were reported for the third and fourth quarter sampling events.

Purged groundwater and decontamination water were containerized in 55-gallon steel drums and staged as directed by Frisco CDC personnel. Approximately 12.50 gallons of purged groundwater were containerized during each of the third and fourth quarter events. The monitoring wells were locked prior to demobilization from the Site.

# 2.2 Well Inspection and Purging Summary

# 2.2.1 Third Quarter Event (September 2023)

Each of the monitoring wells sampled at the Landfill were purged and sampled on either September 11<sup>th</sup> or September 12<sup>th</sup> as described in Section 2.1. Each monitoring well was found locked upon arrival. At the time of sampling, the weather was cloudy with daytime temperatures around 80 degrees Fahrenheit. During the September sampling event, monitoring wells LMW-22, LMW-9, MW-47, PMW-20R, LMW-8, and MW-45 stabilized within five parameter readings, and all other monitoring wells stabilized within four parameter readings. All wells and well pads appeared to be in good condition at the time of sampling.

# 2.2.2 Fourth Quarter Event (November 2023)

Each of the monitoring wells sampled at the Landfill were purged and sampled on either November 29<sup>th</sup> or 30<sup>th</sup> as described in Section 2.1. Each monitoring well was found locked upon arrival. At the time of sampling, the weather was cloudy with daytime high temperatures in the mid-sixties degrees Fahrenheit. During the November sampling event, monitoring wells LMW-22, LMW-9R, MW-47, PMW-20R, LMW-8, MW-45 and stabilized within five parameter readings, and all other monitoring wells stabilized within four parameter readings. All wells and well pads appeared to be in good condition at the time of sampling.

# 3.0 RESULTS

# 3.1 Groundwater Flow

Monitoring well water level data for the third and fourth quarter events are summarized in Table 1 and Table 2, respectively. In the Landfill area, the potentiometric surfaces shown on Figures 3 and 4 generally slope toward the southwest at a gradient of approximately 0.03 to 0.04 feet per foot (ft/ft). The groundwater levels and gradients measured during the third and fourth quarter sampling events are generally consistent with previous groundwater monitoring events.

# 3.2 Analytical Results

Analytical results are summarized in Table 3 (third quarter event) and Table 4 (fourth quarter event) and laboratory reports are included in Appendix C. According to the laboratory analytical results, dissolved metals and total metals concentrations were detected below the applicable Texas Risk Reduction Program (TRRP) Residential Assessment Levels (RALs) or Protective Concentration Levels (PCLs).

# 3.3 QA/QC Samples

The laboratory analytical results for the duplicates are presented in Table 3 and Table 4 for the third and fourth quarter events, respectively. Analytical results are consistent with previous groundwater monitoring events.

# 3.4 Data Validation

WSP completed a review of the above chemical analysis data for conformance with the requirements of the TRRP guidance document, Review and Reporting of COC Concentration Data (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in the data usability summary (DUS), included as Appendix D. The DUS indicates all data are usable for determining concentrations of metals in groundwater.

# 4.0 CLOSING

WSP appreciates the opportunity to serve as your consultant on this project. If you have any questions concerning this report or need additional information, please contact the undersigned at 214-521-1661.

Sincerely,

USA WSP Inc.

Catherine Mear Environmental Scientist Consultant

Timothy Jennings, PG (TX) Assistant Vice President, Geologist

CAM/TJ



# 5.0 **REFERENCES**

- [1] Pastor, Behling & Wheeler, LLC. (July 31, 2013). Revised Class 2 Landfill Groundwater Monitoring Plan.
- [2] Texas Commission on Environmental Quality (April 4, 2014). Approval with Modifications, Class 2 Landfill Groundwater Monitoring Plan, dated July 31, 2013.

# Tables

# TABLE 1 **THIRD QUARTER 2023** SUMMARY OF MONITORING WELL DATA NORTH CAMU FRISCO COMMUNITY DEVELOPMENT CORPORATION SITE FRISCO, TEXAS

		Ground Surface	Top of Casing	Depth to Water	Groundwater	Depth of Well	Screened Interval	Well	Water Column	Well Casing	Actual Volume
Well ID	Date Drilled	Elevation <sup>1</sup> (feet AMSL)	Elevation <sup>1</sup> (feet AMSL)	(feet BTOC)	Elevation <sup>2</sup> (feet AMSL)	(feet BTOC)	(feet BGS)	Diameter (inches)	Length (feet)	Volume <sup>3</sup> (gallons)	Purged (gallons)
MW-45	1/14/2014	657.90	660.86	13.67	647.19	22.55	10-20	2	8.88	1.4	1.25
PMW-19R	2/26/2013	678.45	681.79	21.07	660.72	22.70	4-19	2	1.63	0.27	1.0
LMW-9R	3/1/2016	661.39	664.31	18.46	645.85	32.92	15-30	2	14.46	2.4	1.25
LMW-8	2/4/1995	645.57	648.72	15.59	633.13	24.05	7-21.5	2	8.46	1.4	1.25
LMW-22	2/27/2013	643.32	646.99	17.72	629.27	23.15	5-20	2	5.43	0.9	1.25
LMW-17	7/24/1995	646.34	648.70	19.13	629.57	25.45	10-20	4	6.32	4.1	1.0
LMW-5	2/3/1995	643.27	646.07	17.11	628.96	25.25	7-21.5	2	8.14	1.3	1.0
LMW-21	2/27/2013	645.12	648.28	19.32	628.96	28.07	10-25	2	8.75	1.4	1.0
PMW-20R	2/26/2013	645.20	648.09	19.12	628.97	28.26	10-25	2	9.14	1.5	1.25
MW-41	1/14/2014	639.17	642.17	12.47	629.70	19.15	6-16	2	6.68	1.1	1.0
MW-47	5/2/2017	635.65	638.28	7.97	630.31	17.95	7.5-15	2	9.98	1.6	1.25
MW-42	1/14/2014	638.71	642.24	9.06	633.18	NS	5-15	2	NS	NS	NS
P-1	5/8/1990	645.95	647.24	12.67	634.57	NS	10-20	2	NS	NS	NS

Notes

<sup>1</sup> - Ground surface elevations and top of casing elevations were surveyed in 2013 & 2014 by Sparr Surveys of McKinney, Texas.

Ground surface elevation and top of casing elevation for LMW-9R was surveyed on March 7, 2016 by Brittain & Crawford, LLC of Fort Worth, Texas.

Ground surface elevations and top of casing elevations for MW-47 and MW-41 were surveyed on June 13, 2017 by Brittain & Crawford, LLC of Fort Worth, Texas.

<sup>2</sup> - Groundwater elevation obtained by subtracting the depth to water from the top of casing elevation.

<sup>3</sup> - Well casing volume =  $\frac{\pi D^2}{4} * 7.5 * Water Column Height$  where 7.5 is a factor conversion from cubic feet to gallons, and D is the diameter of the casing. Groundwater level measurements collected on September 11, 2023.

AMSL - above mean sea level

BTOC - below top of casing

BGS - below ground surface

NM - not measured

CAMU - Corrective Action Management Unit

Prepared by: JDH 9/27/23 Checked by: CAM 12/27/2023 Reviewed by: TJ 1/16/2024

# TABLE 2FOURTH QUARTER 2023SUMMARY OF MONITORING WELL DATANORTH CAMUFRISCO COMMUNITY DEVELOPMENT CORPORATION SITEFRISCO, TEXAS

Mall ID	Data Drillod	Ground Surface	Top of Casing	Depth to Water	Groundwater	Depth of Well	Screened Interval	Well	Water Column	Well Casing	Actual Volume
	Date Drilleu	(feet AMSL)	(feet AMSL)	(feet BTOC)	Elevation <sup>2</sup> (feet AMSL)	(feet BTOC)	(feet BGS)	(inches)	(feet)	(gallons)	(gallons)
MW-45	1/14/2014	657.90	660.86	13.29	647.57	22.55	10-20	2	9.26	1.5	1.25
PMW-19R	2/26/2013	678.45	681.79	20.66	661.13	22.70	4-19	2	2.04	0.3	1.00
LMW-9R	3/1/2016	661.39	664.31	15.54	648.77	15.54	15-30	2	0.00	0.0	1.25
LMW-8	2/4/1995	645.57	648.72	14.83	633.89	24.05	7-21.5	2	9.22	1.5	1.25
LMW-22	2/27/2013	643.32	646.99	15.76	631.23	23.15	5-20	2	7.39	1.2	1.25
LMW-17	7/24/1995	646.34	648.70	17.59	631.11	25.45	10-20	4	7.86	5.1	1.00
LMW-5	2/3/1995	643.27	646.07	14.77	631.30	25.25	7-21.5	2	10.48	1.7	1.00
LMW-21	2/27/2013	645.12	648.28	16.82	631.46	28.07	10-25	2	11.25	1.8	1.00
PMW-20R	2/26/2013	645.20	648.09	16.58	631.51	28.25	10-25	2	11.67	1.9	1.25
MW-41	1/14/2014	639.17	642.17	9.79	632.38	19.15	6-16	2	9.36	1.5	1.00
MW-47	5/2/2017	635.65	638.28	7.56	630.72	17.95	7.5-15	2	10.39	1.7	1.25
MW-42	1/14/2014	638.71	642.24	8.03	634.21	NS	5-15	2	NS	NS	NS
P-1	5/8/1990	645.95	647.24	11.72	635.52	NS	10-20	2	NS	NS	NS

Notes

<sup>1</sup> - Ground surface elevations and top of casing elevations were surveyed in 2013 & 2014 by Sparr Surveys of McKinney, Texas.

Ground surface elevation and top of casing elevation for LMW-9R was surveyed on March 7, 2016 by Brittain & Crawford, LLC of Fort Worth, Texas. Ground surface elevations and top of casing elevations for MW-47 and MW-41 were surveyed on June 13, 2017 by Brittain & Crawford, LLC of Fort Worth, Texas.

<sup>2</sup> - Groundwater elevation obtained by subtracting the depth to water from the top of casing elevation.

<sup>3</sup> - Well casing volume =  $\frac{\pi D^2}{4} * 7.5 * Water Column Highere 7.5$  is a factor conversion from cubic feet to gallons, and D is the diameter of the casing. Groundwater levels measurements collected on November 29, 2023.

AMSL - above mean sea level

BGS - below ground surface

BTOC - below top of casing

CAMU - Corrective Action Management Unit NS - not sampled

Monitoring Well	PMW-20R	SDL	LMW-5	SDL	LMW-21	SDL	MW-45	SDL	MW-41	SDL	PMW-19R	SDL			
Lab Sample ID				HS23090922-07		HS23090922-05		HS23090922-06		HS23090922-01		HS23090922-08		HS23090922-02	
Date Sampled				9/11/2023		9/11/2023		9/11/2023		9/11/2023		9/11/2023		9/11/2023	
Time Sampled				14:05		12:45		13:25		9:55		14:45		10:30	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				9/19/2023		9/19/2023		9/19/2023		9/19/2023		9/19/2023		9/19/2023	
Date Analyzed				9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)	-	(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.000400 U	0.000400	0.000707 J	0.000400	0.000400 U	0.000400	0.000882 J	0.000400	0.000400 U	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.001300 J	0.000600	0.003030 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00269	0.00110	0.00110 U	0.00110	0.00619	0.00110	0.00171 J	0.00110	0.00216	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc 7440-66-6 7.3 22			NS		NS		NS		NS		NS		NS		
Metals (USEPA Method 6020A) Dissolved															
Date Prepared				9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023	
Date Analyzed	Date Analyzed					9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.000466 J	0.000400	0.000917 J	0.000400	0.000400 U	0.000400	0.000431 J	0.000400	0.000454 J	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.008270 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00210	0.00110	0.00110 U	0.00110	0.00584	0.00110	0.00152 J	0.00110	0.00228	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc	7440-66-6	7.3	22	NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A)															
Date Prepared				NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		<u>(</u> mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Mercury	7439-97-6	0.002	0.002	NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A) Dissolved															
Date Prepared				NS		NS		NS	↓	NS		NS		NS	
Date Analyzed			-	NS		NS		NS		NS		NS		NS	
Analyte	nalyte CAS No. RAL <sup>1</sup> (mg/L) PCL <sup>2</sup> (mg/L)		<u>(</u> mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		
Mercury	7439-97-6	0.002	0.002	NS		NS		NS		NS		NS		NS	

USEPA - United States Environmental Protection Agency. RAL - Residential Assessment Level.

PCL - Protective Concentration Level.

SDL - Sample Detection Limit. TRRP - Texas Risk Reduction Program. mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

<sup>1</sup> - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential <sup>GW</sup>GW<sub>Ing</sub> PCL applicable

for Class 2 groundwater ingestion.

<sup>2</sup> - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial <sup>GW</sup>GW<sub>Ing</sub> PCL applicable for Class 2 groundwater ingestion.

<u>Flags and Qualifiers</u> U - Analyte was not detected at or above the Sample Detection Limit (SDL). J - Result is an estimated value.

Monitoring Well	LMW-9R	SDL	LMW-8	SDL	LMW-17	SDL	LMW-22	SDL	MW-47	SDL	DUP-01	SDL			
Lab Sample ID				HS23090922-010		HS23090922-03		HS23090922-04		HS23090922-11		HS23090922-09		HS23090922-12	
Date Sampled				9/12/2023		9/11/2023		9/11/2023		9/12/2023		9/11/2023		9/12/2023	
Time Sampled				8:45		11:10		12:05		9:30		15:30		12:45	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				9/19/2023		9/19/2023		9/19/2023		9/19/2023		9/19/2023		9/19/2023	
Date Analyzed				9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	<u>(</u> mg/L)		(mg/L)		<u>(</u> mg/L)		<u>(</u> mg/L)		(mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.00238	0.000400	0.000829 J	0.000400	0.000405 J	0.000400	0.00777	0.000400	0.00637	0.000400	0.000401 J	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000869 J	0.000600
Selenium	7782-49-2	0.05	0.05	0.00276	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc 7440-66-6 7.3 22			22	NS		NS		NS		NS		NS		NS	
Metals (USEPA Method 6020A) Dissolved															
Date Prepared	9/19/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023				
Date Analyzed				9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023		9/20/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)		<u>(</u> mg/L)		(mg/L)	)	<u>(</u> mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.00282	0.000400	0.000658 J	0.000400	0.000595 J	0.000400	0.00978	0.000400	0.00778	0.000400	0.000447 J	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000916 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00373	0.00110	0.00214	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110	0.00110 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc	7440-66-6	7.3	22	NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A)															
Date Prepared				NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	<u>(mg/L)</u>		(mg/L)		(mg/L)		(mg/L)	)	(mg/L)		(mg/L)	
Mercury	7439-97-6	0.002	0.002	NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A) Dissolved															
Date Prepared	Date Prepared			NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte				(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)			
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)		(mg/L)		(mg/L)	)	(mg/L)		(mg/L)	

USEPA - United States Environmental Protection Agency. RAL - Residential Assessment Level.

PCL - Protective Concentration Level.

SDL - Sample Detection Limit. TRRP - Texas Risk Reduction Program. mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

<sup>1</sup> - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential <sup>GW</sup>GW<sub>Ing</sub> PCL applicable

for Class 2 groundwater ingestion.

<sup>2</sup> - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial <sup>GW</sup>GW<sub>Ing</sub> PCL applicable for Class 2 groundwater ingestion.

<u>Flags and Qualifiers</u> U - Analyte was not detected at or above the Sample Detection Limit (SDL). J - Result is an estimated value.

Monitoring Well	PMW-20R	SDL	LMW-5	SDL	LMW-21	SDL	MW-45	SDL	MW-41	SDL	PMW-19R	SDL			
Lab Sample ID				HS23120154-08		HS23120154-05		HS23120154-06		HS23120154-01		HS23120154-09		HS23120154-02	
Date Sampled				11/29/2023		11/29/2023		11/29/2023		11/29/2023		11/29/2023		11/29/2023	
Time Sampled				13:45		12:15		12:55		9:45		14:30		10:20	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023	
Date Analyzed				12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	<u>(</u> mg/L)		<u>(</u> mg/L)		(mg/L)		<u>(</u> mg/L)		(mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.000400 U	0.000400	0.000499 J	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000542 J	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00355 U	0.00110	0.00229 U	0.00110	0.00597 U	0.00110	0.00199 U	0.00110	0.00113 U	0.00110	0.00340 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc	7440-66-6	7.3	22	NS		NS		NS		NS		NS		NS	
Metals (USEPA Method 6020A) Dissolved															
Date Prepared				12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023	
Date Analyzed				12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.000400 U	0.000400	0.000487 J	0.000400	0.000545 J	0.000400	0.000400 U	0.000400	0.000400 U	0.000400	0.000458 J	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000673 J	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00291	0.00110	0.00110 U	0.00110	0.00460	0.00110	0.00139 J	0.00110	0.00110 U	0.00110	0.00195 J	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc	7440-66-6	7.3	22	NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A)															
Date Prepared				NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Mercury	rcury 7439-97-6 0.002 0.002			NS		NS		NS		NS		NS		NS	
Mercury (USEPA Method 7470A) Dissolved															
Date Prepared	Date Prepared			NS		NS		NS		NS		NS		NS	
Date Analyzed				NS		NS		NS		NS		NS		NS	
Analyte	Analyte CAS No. RAL <sup>1</sup> (mg/L) PCL <sup>2</sup> (mg/L)			(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Mercury	7439-97-6	0.002	0.002	NS		NS		NS		NS		NS		NS	

USEPA - United States Environmental Protection Agency. RAL - Residential Assessment Level.

PCL - Protective Concentration Level. SDL - Sample Detection Limit. TRRP - Texas Risk Reduction Program. mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

<sup>1</sup> - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential <sup>GW</sup>GW<sub>Ing</sub> PCL applicable

for Class 2 groundwater ingestion.

<sup>2</sup> - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial <sup>GW</sup>GW<sub>Ing</sub> PCL applicable for Class 2 groundwater ingestion.

<u>Flags and Qualifiers</u> U - Analyte was not detected at or above the Sample Detection Limit (SDL). J - Result is an estimated value.

Monitoring Well				LMW-9R	SDL	LMW-8	SDL	LMW-17	SDL	LMW-22	SDL	MW-47	SDL	DUP-01	SDL
Lab Sample ID				HS23120154-11		HS23120154-03		HS23120154-04		HS23120154-12		HS23120154-10		HS23120154-07	
Date Sampled				11/30/2023		11/29/2023		11/29/2023		11/30/2023		11/29/2023		11/29/2023	
Time Sampled				8:15		11:05		11:40		8:55		15:20		12:15	
Metals (USEPA Method 6020A) Total Recoverable															
Date Prepared				12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023	
Date Analyzed				12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023	
Analyte	CAS No.	RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L)	<u>(</u> mg/L)		(mg/L)		(mg/L)		<u>(</u> mg/L)		<u>(</u> mg/L)		(mg/L)	
Antimony	7440-36-0	0.006	0.006	NS		NS		NS		NS		NS		NS	
Arsenic	7440-38-2	0.01	0.01	0.000717 J	0.000400	0.000531 J	0.000400	0.000711 J	0.000400	0.00142 J	0.000400	0.000400 U	0.000400	0.000400 U	0.000400
Barium	7440-39-3	2	2	NS		NS		NS		NS		NS		NS	
Cadmium	7440-43-9	0.005	0.005	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200	0.000200 U	0.000200
Chromium	7440-47-3	0.1	0.1	NS		NS		NS		NS		NS		NS	
Copper	7440-50-8	1.3	1.3	NS		NS		NS		NS		NS		NS	
Lead	7439-92-1	0.015	0.015	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600	0.000600 U	0.000600
Selenium	7782-49-2	0.05	0.05	0.00210 U	0.00110	0.00110 U	0.00110	0.00233 U	0.00110	0.00279 U	0.00110	0.00486 U	0.00110	0.00224 U	0.00110
Silver	7440-22-4	0.12	0.37	NS		NS		NS		NS		NS		NS	
Zinc	7440-66-6	7.3	22	NS		NS		NS		NS		NS		NS	
Metals (USEPA Method 6020A) Dissolved							-								
Date Prepared				12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023		12/6/2023	
Date Analyzed				12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023		12/7/2023	
Analyte	CAS No.	RAL' (mg/L)	PCL <sup>-</sup> (mg/L)	(mg/L)		(mg/L)	,	(mg/L)		(mg/L)		(mg/L)		(mg/L)	
Analyte Antimony	<b>CAS No.</b> 7440-36-0	RAL' (mg/L) 0.006	PCL <sup>2</sup> (mg/L) 0.006	(mg/L)		(mg/L)		(mg/L) NS		(mg/L) NS		(mg/L) NS		(mg/L) NS	
Analyte Antimony Arsenic	CAS No. 7440-36-0 7440-38-2	RAL' (mg/L) 0.006 0.01	PCL <sup>2</sup> (mg/L) 0.006 0.01	(mg/L) NS 0.000918 J	0.000400	(mg/L) NS 0.000572 J	0.000400	(mg/L) NS 0.000662 J	0.000400	(mg/L) NS 0.00132 J	0.000400	(mg/L) NS 0.000400 U	0.000400	(mg/L) NS 0.000400 U	0.000400
Analyte Antimony Arsenic Barium	CAS No. 7440-36-0 7440-38-2 7440-39-3	RAL' (mg/L) 0.006 0.01 2	PCL <sup>2</sup> (mg/L) 0.006 0.01 2	(mg/L) NS 0.000918 J NS	0.000400	(mg/L) NS 0.000572 J NS	0.000400	(mg/L) NS 0.000662 J NS	0.000400	(mg/L) NS 0.00132 J NS	0.000400	(mg/L) NS 0.000400 U NS	0.000400	(mg/L) NS 0.000400 U NS	0.000400
Analyte Antimony Arsenic Barium Cadmium	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9	RAL' (mg/L)           0.006           0.01           2           0.005	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005	(mg/L) NS 0.000918 J NS 0.000200 U	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3	RAL' (mg/L) 0.006 0.01 2 0.005 0.1	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1	(mg/L) NS 0.000918 J NS 0.000200 U NS	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium Copper	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3	(mg/L) NS 0.000918 J NS 0.000200 U NS NS NS NS	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS NS NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS NS NS	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-92-1	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015	(mg/L) NS 0.000918 J 0.000200 U NS 0.000200 U NS 0.000000 U 0.000600 U	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U NS NS 0.000600 U	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000200 U NS 0.000600 U	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS NS 0.000600 U	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS NS 0.000200 U NS 0.000600 U	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead Selenium	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05	(mg/L) NS 0.000918 J NS 0.000200 U NS 0.000600 U 0.000600 U 0.00110 U	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J NS 0.000200 U NS NS 0.000600 U 0.00110 U	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.0000600 U 0.000600 U 0.00110 U	0.000400	(mg/L) NS 0.0012 J NS 0.000200 U NS NS 0.000600 U 0.00016 J	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS NS 0.000200 U 0.000600 U 0.000333	0.000400	(mg/L) NS 0.000400 NS 0.000200 NS NS 0.000600 U 0.00110 U	0.000400 0.000200 0.000600 0.00110
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead Selenium Silver	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.12	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37	(mg/L) NS 0.000918 J NS 0.000200 U NS 0.000600 U 0.000600 U 0.00110 U NS NS 0.000500 U 0.00110 U NS NS NS NS NS NS NS N	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J 0.000200 U NS NS 0.000200 U 0.000600 U 0.000600 U 0.00110 U NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.000600 U 0.00110 U NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS NS 0.000600 U 0.000166 J NS	0.000400	(mg/L) NS 0.000400 U 0.000200 U 0.000200 U NS 0.000600 U 0.000600 U 0.000333 NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS 0.000110 U	0.000400 0.000200 0.000600 0.00110
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead Selenium Silver Zinc	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.12 7.3	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22	(mg/L) NS NS 0.000918 J O.000200 U NS NS 0.000600 U 0.000600 U 0.00110 U NS NS NS	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U NS 0.000600 U 0.000600 U 0.00110 U NS NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.000100 U 0.00110 U NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS NS 0.000600 U 0.000166 J NS NS NS	0.000400	(mg/L) NS O.000400 U O.000200 U NS NS 0.000600 U 0.000600 U 0.000333 NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS NS NS	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead Selenium Silver Zinc Mercury (USEPA Method 7470A)	CAS No. 7440-38-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6	RAL' (mg/L)           0.006           0.01           2           0.005           0.1           1.3           0.015           0.05           0.12           7.3	PCL <sup>-</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22	(mg/L) NS NS 0.000918 J O.000200 U NS NS 0.000600 U 0.00110 U NS NS NS NS NS NS	0.000400	(mg/L) NS NS 0.000572 J NS 0.000200 U NS 0.000600 U 0.000100 U 0.00110 U NS NS NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.000100 U 0.00110 U NS NS NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.000106 J NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000600 U 0.000333 NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000600 U 0.00110 U NS NS NS NS	0.000400
Analyte Antimony Arsenic Barium Cadmium Chromium Copper Lead Selenium Silver Zinc Mercury (USEPA Method 7470A) Date Prepared	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.12 7.3	PCL* (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22	(mg/L) NS 0.000918 J 0.000200 U NS NS 0.000600 U 0.000100 U 0.00110 U NS NS NS NS	0.000400	(mg/L) NS 0.000572 J NS 0.000200 U NS 0.000600 U 0.000100 U 0.00110 U NS NS NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.00110 U 0.00110 U NS NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00016 J NS NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000333 NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6	RAL' (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.12 7.3	PCL* (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22	(mg/L) NS 0.000918 J 0.000200 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J NS 0.000200 U NS NS 0.000600 U 0.00110 U NS NS NS NS NS	0.000400	(mg/L) NS NS 0.000662 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00116 J NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000303 NS NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS NS NS	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No.	RAL <sup>1</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.12 7.3 RAL <sup>1</sup> (mg/L)	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L)	(mg/L) NS 0.000918 J 0.000200 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS (mg/L)	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS (mg/L)	0.000400	(mg/L) NS NS 0.000662 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS (mg/L)	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00116 J NS NS NS (mg/L)	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000303 NS NS NS NS NS NS NS NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS (mg/L)	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte         Mercury	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No. 7439-97-6	RAL <sup>1</sup> (mg/L)           0.006           0.01           2           0.005           0.1           1.3           0.015           0.05           0.12           7.3           RAL <sup>1</sup> (mg/L)           0.002	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L) 0.002	(mg/L) NS 0.000918 J 0.000200 U NS 0.000200 U 0.000600 U 0.000100 U 0.00110 U NS NS NS NS NS (mg/L) NS	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J 0.000200 U NS 0.000600 U 0.00110 U NS	0.000400	(mg/L) NS NS 0.000662 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS (mg/L) NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00116 J NS NS NS (mg/L) NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000333 NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS (mg/L) NS	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte         Mercury (USEPA Method 7470A) Dissolved	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No. 7439-97-6	RAL <sup>1</sup> (mg/L)           0.006           0.01           2           0.005           0.1           1.3           0.015           0.05           0.12           7.3           RAL <sup>1</sup> (mg/L)           0.002	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L) 0.002	(mg/L) NS NS 0.000918 J NS 0.000200 U NS 0.000600 U 0.000100 U 0.00110 U NS NS NS NS NS (mg/L) NS	0.000400 0.000200 0.000600 0.00110	(mg/L) NS NS 0.000572 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS NS (mg/L) NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS (mg/L) NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00116 J NS NS NS NS (mg/L) NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000333 NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS (mg/L) NS NS NS NS (mg/L)	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte         Mercury (USEPA Method 7470A) Dissolved         Date Prepared	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No. 7439-97-6	RAL <sup>1</sup> (mg/L)           0.006           0.01           2           0.005           0.1           1.3           0.015           0.05           0.12           7.3           RAL <sup>1</sup> (mg/L)           0.002	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L) 0.002	(mg/L) NS 0.000918 J 0.000200 U 0.000000 U 0.000600 U 0.000100 U 0.00110 U NS	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J NS 0.000200 U NS NS 0.000600 U 0.00110 U NS NS NS NS NS (mg/L) NS NS NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS NS NS (mg/L) NS NS	0.000400	(mg/L) NS   0.00132 J NS   0.000200 U NS   0.000600 U 0.000116 J NS   NS   NS   NS   NS	0.000400	(mg/L) NS 0.000400 U NS 0.000200 U NS 0.000600 U 0.000333 NS	0.000400	(mg/L) NS 0.000400 U 0.000200 U NS 0.000600 U 0.00110 U NS	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte         Mercury (USEPA Method 7470A) Dissolved         Date Prepared	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No. 7439-97-6	RAL <sup>1</sup> (mg/L)           0.006         0.01           2         0.005           0.1         1.3           0.015         0.05           0.12         7.3           RAL <sup>1</sup> (mg/L)         0.002	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L) 0.002	(mg/L) NS 0.000918 J 0.000200 U 0.000000 U 0.000600 U 0.000100 U 0.00110 U NS NS NS NS (mg/L) NS	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000572 J NS 0.000200 U NS NS 0.000600 U 0.00110 U NS NS NS NS (mg/L) NS	0.000400	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.00110 U NS NS NS (mg/L) NS NS NS	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00016 J NS NS NS (mg/L) NS NS NS	0.000400	(mg/L) NS 0.000400 U 0.000200 U NS 0.000000 U 0.000333 NS	0.000400	(mg/L) NS   0.000400  U NS   0.000200  U NS   0.000600  U 0.00110  U NS   NS   NS   NS   NS   NS   NS	0.000400
Analyte         Antimony         Arsenic         Barium         Cadmium         Chromium         Copper         Lead         Selenium         Silver         Zinc         Mercury (USEPA Method 7470A)         Date Prepared         Date Analyzed         Analyte         Mercury (USEPA Method 7470A) Dissolved         Date Prepared         Date Prepared         Date Analyzed         Analyte         Date Prepared         Date Analyzed	CAS No. 7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-47-3 7440-50-8 7439-92-1 7782-49-2 7440-22-4 7440-66-6 CAS No. 7439-97-6 CAS No.	RAL <sup>1</sup> (mg/L)           0.006           0.01           2           0.005           0.1           1.3           0.015           0.05           0.12           7.3           RAL <sup>1</sup> (mg/L)           0.002	PCL <sup>2</sup> (mg/L) 0.006 0.01 2 0.005 0.1 1.3 0.015 0.05 0.37 22 PCL <sup>2</sup> (mg/L) 0.002 PCL <sup>2</sup> (mg/L)	(mg/L) NS 0.000918 J NS 0.000200 U NS 0.000600 U 0.00110 U NS NS (mg/L) NS NS (mg/L) (mg/L)	0.000400 0.000200 0.000600 0.00110	(mg/L) NS   0.000572 J NS   0.000200 U NS   0.000600 U 0.00110 U NS   NS   NS   (mg/L) NS   NS   N	0.000400 0.000200 0.000600 0.00110 0.00110 0.00110 0.00110	(mg/L) NS 0.000662 J NS 0.000200 U NS NS 0.000600 U 0.00110 U NS NS NS (mg/L) NS NS (mg/L)	0.000400	(mg/L) NS 0.00132 J NS 0.000200 U NS 0.000600 U 0.00016 J NS NS NS (mg/L) NS NS (mg/L)	0.000400 0.000200 0.000600 0.00110	(mg/L) NS 0.000400 U NS 0.000200 U NS NS 0.000600 U 0.00333 NS	0.000400	(mg/L) NS   0.000400  U NS   0.000200  U NS   0.000600  U 0.00110  U NS   NS   NS	0.000400

USEPA - United States Environmental Protection Agency. RAL - Residential Assessment Level.

PCL - Protective Concentration Level.

SDL - Sample Detection Limit. TRRP - Texas Risk Reduction Program. mg/L - Milligrams per liter.

CAMU - Corrective Action Management Unit.

<sup>1</sup> - The Groundwater Residential Assessment Level (GW RAL) is the TRRP Tier 1 Residential <sup>GW</sup>GW<sub>Ing</sub> PCL applicable

for Class 2 groundwater ingestion.

<sup>2</sup> - The Groundwater Critical PCL is the TRRP Tier 1 Commercial/Industrial <sup>GW</sup>GW<sub>Ing</sub> PCL applicable for Class 2 groundwater ingestion.

<u>Flags and Qualifiers</u> U - Analyte was not detected at or above the Sample Detection Limit (SDL). J - Result is an estimated value.

# Figures





# LEGEND **•**

Monitoring Well Location

Approximate Extent of Disposal Area

Former Operating Plant Property Boundary

# NOTES

1. LMW-9 COLLAPSED AND WAS REPLACED WITH LMW-9R IN MARCH 2016 AND LMW-9 WAS SUBSEQUENTLY ABANDONED IN MAY 2017.

2. MW-47 WAS INSTALLED ON MAY 2, 2017. 3. CAMU – CORRECTIVE ACTION MANAGEMENT UNIT

# REFERENCE

1. AERIAL IMAGERY - SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY SITE AERIAL IMAGERY - PROVIDED BY DALLAS AERIAL SURVEY, DATED APRIL, 2017.



CLIENT FRISCO COMMUNITY DEVELOPMENT CORPORATION FRISCO, TX

PROJECT NORTH CAMU GROUNDWATER MONITORING

## TITLE MONITORING WELL LOCATION MAP

CONSULTANT		YYYY-MM-DD		04/19/2021	
		PREPARED		SJRS	
	1150	DESIGN		SJRS	
		REVIEW		EPF	
		APPROVED		AMF	
PROJECT No. 20409062	CONTROL 20409062A004.m	ıxd	Rev. 0		FIGURE





### NOTE(S)

- (S) GROUNDWATER ELEVATIONS MEASURED SEPTEMBER 11, 2023. MSL = MEAN SEA LEVEL CONTOUR INTERVAL = 5 FEET LMV-9 COLLAPSED AND WAS REPLACED WITH LMW-9R IN MARCH 2016 AND LMW-9 WAS SUBSEQUENTLY ABANDONED IN MAY 2017. CAMU CORRECTIVE ACTION MANAGEMENT UNIT. \* WELL NOT USED IN CONTOURING (LMW-17 AND MW-47).

IMOTHY P. JENNING

GEOLOGY

1842 CENSE 4L x ( 1/29/2

REFERENCE(S) BASE MAP TAKEN FROM GOOGLE EARTH, DATED 12/10/2017.



CLIENT FRISCO COMMUNITY DEVELOPMENT CORPORATION FRISCO, TX

PROJECT NORTH CAMU GROUNDWATER MONITORING

# GROUNDWATER GRADIENT MAP





FIGURE 0

APPENDIX A

Monitoring Well Inspection Forms

**Monitoring Well Inspection Form** 



# Project Name: Exide North CAMU GW Monitoring

Location: Frisco, TX

Project No.: 130-2086-05

Date of Inspection     (name written on casing)     Completion in Casing in Good     Casing in Good     Candition     Casing in Good       Y     Y     Y     Y     Y     Y     Y     Condition     Casing in Good       Y     Y     Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y<	
(name written on casing)     Completion in good Condition Y/N     Casing in Good Condition Y/N     Casing in Good Condition Y/N     Casing in Good Condition Y/N       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y     Y       Y     Y     Y     Y     Y       Y     Y     Y <td></td>	
Completion in Good Condition     Casing In Good Condition Y/N     Condition Y       Y     Y     Y     Y       Y     Y	Is Well Easilly Identified
Casing In Good Condition Y/N Condition	Is Surface
Casing in G Condition	Is Well Outer
	Is Well Inner
Action Required	

Sheet \_\_\_\_ of \_\_\_\_

GOLDER MEMBER OF WSP

**Monitoring Well Inspection Form** 

Project Name: North CAMU GW Monitoring

Location: Frisco, TX

Project No.: 2040906201

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Is Well Secured, le Locked Y /N	Y	7	4	٨	٨	٨	٨	٨	٢	>	X	1000000		No		Sales and the second	States and a	NUL DOLLAR		A State of the sta						100 M 100 M			
Is Well Inner Casing In Good Condition Y /N	7	~	٨.	٨	7	7	Y	X	γ	X	2	Constant States	Number of the second				The second second		and the second second	NTS ADDRESS AND	20	Section Section	A TON THE REAL PROPERTY OF		ALL ALL		Contraction of the second		
Is Well Outer Casing In Good Condition Y /N	7	٨	1	7	Y	7	4	٨	7	7	7	Property Contract	A LANDA ST	11 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	1.121 1.12N		10 10 10 10 10 10 10 10 10 10 10 10 10 1		Cherry Control of the second	NEW TRANSPORT		1 - 05 - 1 - 0 - 1 - 0		うちを		10 1 1 1 1 2 1	a star a star	and the second second	
Is Surface Completion in Good Condition Y /N	X	X	7	Y	1	4	7	4	٨	γ	γ								Section 24	ALC: LOUGH IN		S - 44 - 250	A LE NO			and the second s	and the second second		
Is Well EasIIIy Identified (name written on casing) Y /N	٨	7	λ.	N N	λ.	1	4	,	7	4	~								C. A. T. B. Brancher B. B.		のないので、		The second s						
Date of Inspection	11-29-23		States and	ALC: N. S.	The second second		No. of Control of Control	AL AL ALLER AND A	Strong Dates of		Đ		and the second second		No. Share	たいたいという			Saloute N. N.		The second second			Contract of a					
Well No.	MW-45	PMW-19R	LMW-8	<b>LMW-17</b>	LMW-5	LMW-21	PMW-20R	MW-47	MW-41	LMW-9R	LMW-22	and the second	and the state of the								A STATE OF A						Strategies W.		

Sheet \_\_\_\_\_ of \_\_\_

APPENDIX B

**Groundwater Sampling Forms** 

**GOLDER** 

Project Name: Exide North CAMU GW Monitoring Location: Frisco, TX

**RECORD OF WATER LEVEL READINGS** 

Project No.: 130-2086-05

Comments																							
By	2007	-											-9				+			-			
Water Level Elevation																							
Survey Mark Elevation													,										
Total Depth (FT)	22.55	22.70	24,05	25145	25,25	28,07	28,26	19,15	17.95	32,92	23, 15	MM	MM										
Water Level Below M.P. (FT)	13.67	21.07	15,59	19.13	11.11	19.32	19,12	12.47	1.97	8 4 LO	21.71	12.67	9.06										
Measurement Point (M.P)	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC										
Measuring Device / Serial No.	JOCI ISNIJOS	-											4										
Time																							
Date	9-11-23												4										
Borehole No.	MW-45	PMW-19R	LMW-8	-MW-17	LMW-5	-MW-21	PMW-20R	MW-41	MW-47	LMW-9R	_MW-22	P-1	MW-42										

Sheet 1 of 1



Project Ref:	Exide N	orth CAM	U Groundwater	Monitoring		Project No. : 13	0-2086-05
WEATHER C	Ure	BC	)°	Weather_Clo	udy		
SAMPLE INF	ORMAT	ION			0		
Sample Lo Sample Da	ate <u>9</u> -	LMW-22 2-23	2 Time	0930	Sample NoL	<u>/W-22</u>	
Sample M	lethod	Peristait	c Pump	17.00	Sample Type Gr	0210	
Begin Purge ( 0905 @ 250	@ D mL/min	Water Lev Well Volur Volume W Water Lev Water Lev	el Before Purging ne: <u>5143</u> FT ater Removed Be el Before Samplin el After Sample: O	: <u>11.72</u> <u>x 0.163 gal/FT</u> fore Sampling: <u></u> ig: <u>8.06</u> : <u>8.06</u>	FT BTOC TD: = 0,90 gallons J,25 gallons FT BTOC FT BTOC	<u>25.15</u> 	T BTOC
		Appearant	e of Sample.	and the own	(		
FIELD MEAS	UREME	NTS					
Volume Dis Spec T Temp Pun Wate	Time Scharge pH c. Cond. Turbidity perature mp Rate er Level	hhmm gals Standard mS/CM NTU °C mL/min FT BTOC	<u>Measurement</u> 0910 .25 <u>6.71</u> 0.727 46 19,47 250 17,91	Measurement 0915 .50 6,76 0.816 5,7 19,46 250 17,96	Measurement 0920 .75 6.89 0.839 5.( 19.56 250 [8.62	$\begin{array}{c} \underline{Measurement}\\ 0925\\ \underline{1,0}\\ \underline{6.84}\\ 0.831\\ \underline{5,2}\\ \underline{19.51}\\ 250\\ \underline{18,06}\\ \end{array}$	54 0930 1,25 6,87 0,834 5,4 19,52 -250 18,08
LABORATOR	RY CON	IAINERS					
Sub- Sample			Analysis Requeste	d	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total N	<b>Netals</b>			1 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissol	ved Metals	8		1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3							

NA = Not applicable

**REMARKS**:

SAMPLIN	G MET	HODS:

Bailer: PVC/PE Stainless Steel Teflon

NONE

Peristaltic Pump

Submersible Pump Hand Pump Air-Lift Pump

Other

# S GOLDER

Project Ref:	Exide North CAM	U Groundwater	Monitoring		Project No. : 1	30-2086-05
WEATHER C	ONDITIONS ure7.	2°	Weather	ndy		
SAMPLE INF Sample Lo Sample Da Sample Ma	ORMATION ocation <u>LMW-91</u> ate <u>9~12~23</u> ethod <u>Peristalt</u>	R Time ic Pump	0845	_ Sample NoL _Sample Byک _Sample TypeGr	MW-9R TB ab	
Begin Purge ( OR 20 @ 250 <sup>n</sup>	<ul> <li>Water Lev</li> <li>Well Volur</li> <li>Nolume W</li> <li>Water Lev</li> <li>Water Lev</li> <li>Appearance</li> </ul>	el Before Purging ne: <u>446 FT</u> ater Removed Be el Before Samplin el After Sampling ce of Sample: <u>4</u>	: 10,163 gal/FT fore Sampling: g: 18,82 g: 18,82 g: 18,82	FT BTOC TD: = 2,4 gallons ],25 gallons FT BTOC FT BTOC	<u>32,72</u>	FT BTOC
FIELD MEAS Par Volume Dis Spec T Temp Pun Wate	UREMENTS rameter Units Time hhmm scharge gals pH Standard Cond. mS/CM urbidity NTU berature °C np Rate mL/min er Level FT BTOC	Measurement 0825 .25 6.36 2.313 4.7 20,9 250 18.77	Measurement 0850 150 6,57 2,174 6,7 20,6 250 18,79	Measurement 0835 .75 .6.69 .2.017 7.1 .20.7 .250 .18.83	Measurement 0840 1.0 6.71 2.023 7.2 20.3 20.3 250 [8,82	Sample 0845 1.25 6.70 20,4 7.0 20,4 250 (8,82
Sub- Sample		Analysis Requeste	d	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals			1 x 120 mL Poly	NO	HNO <sub>3</sub>
2 3	Dissolved Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
4						
5						
6						

REMARKS:

7

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

NONE

Peristaltic Pump Air

Submersible Pump Hand Pump Air-Lift Pump

Other



Project Ref: E	Exide No	rth CAM	J Groundwater	Monitoring		Project No. : 130	0-2086-05
WEATHER CO	ONDITIO	NS 84	50	_Weather_CD	ndy		
SAMPLE INFO	RMATIC	NC			U		
Sample Loc	ation	MW-47			Sample No. MV	V-47	
Sample Dat	te 7~1	1-23	Time	1530	_Sample By	IB	
Sample Met	thod	Peristalti	c Pump	a contraction of the	Sample Type Gr	ab	
Begin Purge @	o v	ater Leve	el Before Purging	7,97	FT BTOC TD:	17,95 F	Т ВТОС
1505	V	Vell Volum	ne: 9,98 FT	x 0.163 gal/FT	= , o gallons		
@ml	L/min V	olume Wa	ater Removed Be	efore Sampling:	1,25 gallons		
250	V	Vater Leve	el Before Samplin	ng: 8,28	FT BTO	>	
	V	Veter Leve	el After Sampling	8,30	FT BTO		
	A	ppearanc	e of Sample: 👤	bar, no ods	2		
FIELD MEASU	IREMEN	TS I		,			
Para	ameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
	Time	hmm	1510	1515	1520	1525	1530
Volume Disc	charge	gals	.25	,50	25	1.0	1.25
	pH S	Sandard	6.46	6,49	6.71	6,72	6.71
Spec.	Cond.	nS/CM	1.234	1, 4467	1.479	1.476	[.47]
Tu	urbidity	NTU	3,6	4.1	4.4	4.1	4.2
Tempe	erature	°C	19.3	19,6	1917	19,9	19,6
Pum	p Rate	n L/min	250	250	250	250	250
Water	r Level F	BTOC	8.17	8:25	6,26	8120	0100
LABORATOR	Y CONT	ANERS					
Sub-			nalucie Paqueste	ad	Type and Size of	Filtered	Type of
Sample			analysis Requeste	5 <b>u</b>	Sample Container	(Yes or No)	Preservative
1	Total M	etals			1 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissolve	ed Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3							
4							

REMARKS: NONE

5

6 7 8

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

S<sup>A</sup>

1

Air-Lift Pump

Peristaltic Pump Submersible Pump Hand Pump

Other\_\_\_

# S GOLDER

Project Ref: E	xide North CAM	U Groundwater	Monitoring		Project No. : 13	0-2086-05
WEATHER CO	NDITIONS 85	5°	_Weather_Cla	ndy		
SAMPLE INFO	RMATION			0		
Sample Loca	ation <u>MW-41</u>			Sample No.	MW-41	
Sample Date	9-11-23	Time	1445	_Sample By	JTB	
Sample Meth	hod Peristalti	c Pump		_ Sample Type <u>Gr</u>	ab	
Begin Purge @	Water Leve Well Volum	el Before Purging ne: 6,68 FT	x 0.163 gal/FT	FT BTOC TD:	19.15 F	ТВТОС
@ 250 mL	/min Volume Water Leve	ater Removed Be el Before Samplir	efore Sampling:	1.00 gallons FT BTO	<u> </u>	
	Water Leve Appearance	el After Sampling e of Sample:	12.73 lean, mo or	FT BTO	<u> </u>	
FIELD MEASU	REMENTS			·		
Parar	meter Units	Measurement	Measurement	Measurement	Measurement	Sample
	Time hhmm	1430	1435	1440	1	1445
Volume Disch	harge gals	.25	.50	.75		1,00
	pH Standard	6.77	6.81	6.83		6-83
Spec. 0	Cond. mS/CM	0.941	0.979	0.974		0.976
Tur	bidity NTU	3.4	Y, ]	4.7		4.5
Temper	rature °C	19.7	19,9	19.7		19.6
Pump	Rate mL/min	250	250	_250		250
Water	Level FT BTOC	12.67	12:71	12:73		12:13
LABORATORY	CONTAINERS					
Sub- Sample	A	Analysis Requeste	d	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals			1 x 120 mL Poly	NO	HNO <sub>3</sub>
2 1	Dissolved Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3						
4						

REMARKS:

NA = Not applicable

SAMPLING METHODS:

NONE

Bailer: PVC/PE Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump

Submersible Pump Hand Pump

Other\_



Project Ref:	Exide N	lorth CAM	U Groundwater	Monitoring		Project No. : 1	30-2086-05
WEATHER C		ONS 85	0	_Weather <u>SUA</u>	INY		
Sample INF Sample Da Sample Da Sample Ma Begin Purge ( \34( @250 m	ORMAT ocation ate ethod @ nL/min	PMW-20 PMW-20 Peristalti Water Leve Well Volume W Water Leve Water Leve Water Leve Appearance	DR Time tic Pump el Before Purging ne: 9,14 FT ater Removed Be el Before Sampling el After Sampling ce of Sample: _	2 1405 3: 19,12 x 0.163 gal/FT 2: 19,43 3: 19,44 19,44 19,44	Sample No P Sample By Sample TypeGr FT BTOC TD: = 1,5 gallons /. 25 gallons FT BTOC FT BTOC	MW-20R 3 28,26	FT BTOC
FIELD MEAS Par Volume Dis Spec T Temp Pum Wate	Time scharge pH Cond. urbidity perature p Rate er Level	NTS Units hhmm gals Standard mS/CM NTU °C mL/min FT BTOC	$\begin{array}{r} \underline{Measurement}\\ [345] , 25\\ [6.9] \\ [.134] \\ [.2] \\ 20,2\\ 20,2\\ 250\\ [9.29] \end{array}$	Measurement 1250 ,50 1.81 1.147 8,4 20,6 250 19,39	Measurement 1355 175 1,74 1,144 8,6 20,9 250 19,4(	Measurement 1400 1,00 6,71 1/39 1,1 20,6 250 19,45	Sample (405 1,25 6,73 1,142 9,0 20,6 250 (9,44
Sub- Sample		,	Analysis Requeste	ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total N	Aetals			1 x 120 mL Poly	ND	HNO <sub>3</sub>
2	Dissol	ved Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3							
4							
5		15.					

6

NONE REMARKS:

7 8

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump

Submersible Pump Hand Pump

Other\_

# GOLDER

Project Ref: Exide	North CAM	U Groundwater	Monitoring		Project No. : 13	30-2086-05
WEATHER CONDIT	ions B	5°	_Weather_C	ondy		
SAMPLE INFORMA	TION			0		
Sample Location Sample Date 9	LMW-2	1 Time	1325	Sample No.	LMW-21	
Sample Method _	Peristait	ic Pump		_ Sample TypeGr	ab	
Begin Purge @ 1305	Water Lev Well Volur	el Before Purging ne: 8,15 FT	r: <u>19.32</u> x 0.163 gal/FT	FT BTOC TD: = 1.4 gallons	28.07 1	Т ВТОС
@ 250	Volume W Water Lev Water Lev	ater Removed Be el Before Samplin el After Sampling	efore Sampling: ng: <b>19.52</b> i: <b>19.53</b>	I (OO gallons FT BTO) FT BTO		
	Appearance	ce of Sample: _C	lean, no cau	7		
FIELD MEASUREM	ENTS					
Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	1310	1315	1320	1	1325
Volume Discharge	gals	,25	,50	.75		1.00
pH	Standard	6.73	6.74	6.77		6.76
Spec. Cond.	mS/CM	1.434	1.396	1.4/7		1.413
Turbidity	NTU	8,6	8,	7,9		8,0
Temperature	°C	20.3	_20,0	20,1		20,2
Pump Rate	mL/min	250	250	_250		250
Water Level	FT BTOC	19.91	17.51	19,52		19,55
LABORATORY CON	TAINERS					
Sub- Sample	,	Analysis Requeste	ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative

Sample	Analysis Requested	Sample Container	(Yes or No)	Preservative HNO <sub>3</sub>	
1	Total Metals	1 x 120 mL Poly	NO		
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>	
3					
4					
5	49°				
6					
7					
8					
REMARKS:	NOME				

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump

Submersible Pump Hand Pump

Other

# S GOLDER

Project Ref: E	roject Ref: Exide North CAMU Groundwater Monitoring				Project No. : 130-2086-05		
WEATHER CO Temperature	e	ONS	84°	_Weather_Cle	ndy		
SAMPLE INFO Sample Loca Sample Date Sample Met Begin Purge @ [225] @ 250 <sup>mL</sup>	e thod	LMW-5 -   -23 Peristalti Water Leve Well Volun Volume W Water Leve Water Leve	Time ic Pump el Before Purging ne: b(\4 FT ater Removed Be el Before Samplir el After Sampling	= =	Sample No Sample By Sample TypeGr FT BTOC TD: = 1,2 gallons / () gallons FT BTO( FT BTO(	MW-5/DUP-01 DB ab 25,25 F 	T BTOC
Appearance of Sample:							
FIELD MEASU	REME	NTS					
Para	meter	Units	Measurement	Measurement	Measurement	Measurement	Sample
	Time	hhmm	1230	1235	1240	1	1245
Volume Discl	harge	gals	,25	150	75		1.0
	pH	Standard	7.09	7.04	7.03		7.03
Spec. (	Cond.	mS/CM	0.741	0.762	0.76[		0,767
Tur	rbidity	NTU	519	512	511		5,3
Temper	rature	°C	20,7	20,9	20.9		20,8
Pump	Rate	mL/min	250	250	250	1	250
Water	Level	FT BTOC	17.29	17.31	17.32		17.32
LABORATORY	CON	TAINERS					
Sub- Sample	Analysis Requested			d	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals				2 x 120 mL Poly	MA	HNO <sub>3</sub>
2	Dissolved Metals				2 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>

8 REMARKS: **DUP-01** collected

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump

Submersible Pump Hand Pump

Other\_



Project Ref: Exide North CAMU Groundwater Monitoring Project No. : 130-2086-05							
WEATHER CONDITIONS     84°       Temperature     94°							
Sample INFO Sample Da Sample Me Begin Purge (C	DRMATIC cation ite ethod D W	<u>LMW-17</u> 9~11-2 Peristalti /ater Leve /ell Volum	3 Time c Pump el Before Purging ne: _ (0, 32 FT	1205 19,13 x 0.653 gal/FT	Sample No Sample By Sample Type FT BTOCTD = _, Ogallon	LMW-17 MB Grab : 25,45 F s	т втос
°250	nL/min Volume Water Removed Before Sampling:						
FIELD MEASUREMENTS							
Para	ameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
	Time	hhmm	1150	1/55	1200		1205
Volume Dise	charge	gals	1.76	1.91	1.02		1.81
Spec	Cond	mS/CM	A714	0.779	0.781		0.77/0
Ti	urbidity	NTU	1.7	1.1	14		1.6
Tempe	erature	°C	20,6	20,7	20,7		20.7
Pum	p Rate	mL/min	25D	250	250		250
Wate	r Level F	T BTOC	19,27	19.31	19.32	1	(9.33
LABORATOR	YCONT	AINERS					
Sub-			nalvsis Requeste	d	Type and Size of	Filtered	Type of
Sample			analysis requeste	u	Sample Containe	r (Yes or No)	Preservative
1	Total Me	etals			1 x 120 mL Poly	ND	HNO <sub>3</sub>
2	Dissolved Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>	
3							
4							
5							

8 REMARKS:

6 7

NONE

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

Air-Lift Pump

Peristaltic Pump Submersible Pump Hand Pump

Other\_



Project Ref: E	Project Ref: Exide North CAMU Groundwater Monitoring				Project No. : 130-2086-05			
WEATHER CC	e	ONS	76°	_Weather_	udy			
SAMPLE INFO	RMAT	ION			0			
Sample LocationLMW-8					Sample No. LMW-8			
Sample Date <u>9-11-23</u> Time <u>1110</u>			_Sample By					
Sample Me	thod	Peristalti	ic Pump		Sample Type Gr	ab		
Begin Purge @ Water Level Before Purging: 15,59 Well Volume: 8.46 ET x 0.163 gal/F				x 0.163 gal/FT	FT BTOC TD: 24,05 FT BTOC			
°250	nL/min Volume Water Removed Before Sampling: <u>1,25 gallons</u> Water Level Before Sampling: <u>15,90 FT BTOC</u>							
		Appearance	ce of Sample:	clear, no	odo?			
FIELD MEASU	IREME	NTS						
Para	ameter	Units	Measurement	Measurement	Measurement	Measurement	Sample	
	Time	hhmm	1050	1055	1100	105	1110	
Volume Disc	charge	gals	.25	.50	.75	1.0	1.25	
	pH	Standard	6.78	6.78	6.89	6.82	6.87	
Spec.	Cond.	mS/CM	1.347	1.216	0.967	0.959	0.762	
Tu	urbidity	NTU	5,4	4.7	4.2	4.6	4.6	
Tempe	erature	°C	19.6	19,9	19,4	19.5	19,5	
Pum	p Rate	mL/min	250	250	-250	250	250	
Water	r Level	FT BTOC	15,17	15,86	15,87	15,70	1517/	
LABORATOR	YCON	TAINERS						
Sub- Sample	Analysis Requested			ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative	
1	Total Metals			1 x 120 mL Poly	ND	HNO <sub>3</sub>		
2	Dissolved Metals				1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>	
3								

NA = Not applicable

**REMARKS**:

SAMPLING	METHODS:

Bailer: PVC/PE Stainless Steel Teflon

NONE

Peristaltic Pump Air-Lift Pump Other\_

Submersible Pump Hand Pump


Project Ref:	Exide N	orth CAM	U Groundwater	Project No. : 130-2086-05				
WEATHER CO	ONDITIO	ONS	76°	_WeatherC	loudy			
SAMPLE INFO	ORMAT	ION			0			
Sample Loo	cation_	PMW-19	9R	100	Sample No. Pl	/W-19R		
Sample Da	te 1-	-11-23	Time	1030	Sample By	JIR		
Sample Me	ethod	Peristalti	c Pump		Sample Type Gr	ab		
Begin Purge	) 1	Water Lev Well Volun	el Before Purging	: <u>21.07</u> x 0.163 gal/FT	$\frac{\text{FT BTOC}}{= 0.25} \text{ gallons}$	22.70	FT BTOC	
@	L/min	Volume W	ater Removed Be	fore Sampling:	1.0 gallons			
250		Water Lev	el Before Samplir	19: 21.34	FT BTO	0		
		Water Leve	el After Sampling	21.34	, FT BTO	0		
		Appearanc	e of Sample:	clear.n	0 0901			
FIELD MEASU	UREME	NTS		.1.				
Para	ameter	Units	Measurement	Measurement	Measurement	Measurement	Sample	
	Time	hhmm	1015	1020	1025		1030	
Volume Dise	charge	gals	.25	.50	.75		).0	
	pH	Standard	6.76	6:19	4.79		6:78	
Spec.	. Cond.	_S/CM	1.329	1.369	1.361		1,367	
Tu	urbidity	NTU	1436	1451	12,61		12.61	
Tempe	erature		20.1	20,6	20,5		2012	
Pum Wate	ip Rate	TET BTOC	2134	21.29	2131	-	250	
vvale	Level	FIBIOC	(	_2(.5)	(.)(		2004	
LABORATOR	Y CON	TAINERS						
Sub- Sample		ŀ	Analysis Requeste	d	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative	
1	Total N	Aetals			1 x 120 mL Poly	W VEC	HNO <sub>3</sub>	
2	Dissolv	ed Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>	
3								
	-							

1	Total Metals	1 x 120 mL Poly	# YES	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3				
4				
5				
6				
7				
8				
0				

**REMARKS:** 

NONE

NA = Not applicable

Bailer: PVC/PE Stainless Steel Teflon

Air-Lift Pump

Peristaltic Pump Submersible Pump Hand Pump

Other\_\_

# GOLDER

Project Ref: Exide	North CAM	U Groundwater	Monitoring		Project No. : 1	30-2086-05
WEATHER CONDIT	IONS	76°	_Weather	loudy		
SAMPLE INFORMA	TION			0		
Sample Location	MW-45			Sample No.	MW-45/MS-01/M	SD-01
Sample Date	7-11-23	Time	0955	Sample By	JTB	
Sample Method _	Peristalti	c Pump		Sample TypeG	ab	
Begin Purge @	Water Leve Well Volum	el Before Purging ne: <u>6,83</u> FT	x 0.163 gal/FT	FT BTOC TD: = ), 4 gallons	22.55	FT BTOC
@ 160 mL/min	Volume W	ater Removed Be	efore Sampling:	1.25 gallons		
- 250	Water Leve	el Before Samplin	ng: 14.06	FT BTO	C	
	Water Leve	el After Sampling	: 14.07	FT BTO	C	
	Appearance	e of Sample:	clear r	vo odor		
FIELD MEASUREM	INTS		(			
Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	0935	0940	0945	0950	0955
Volume Discharge	gals	,25	.50	,75	1.0	1,25
Ha	Standard	7.03	A 7.12	7.16	7.17	7.21
Spec. Cond.	mS/CM	0.961	0,629	0,617	0.612	0.616
Turbidity	NTU	4.6	3,2	3.7	3,6	3.6
Temperature	°C	19.2	19,2	19,3	19,2	19.3
Pump Rate	mL/min	250	250	250	250	250
Water Level	FT BTOC	(3.94	13,99	14.02	14.06	14.07
LABORATORY CON	TAINERS					
Sub-		and min Deserved		Type and Size of	Filtered	Type of

Sub- Sample	Analysis Requested	Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3				
4				
5				
6				
7				
8				

**REMARKS:** MS-01/MSD-01 collected.

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump Other

Submersible Pump Hand Pump

GOLDER MEMBER OF WSP

**RECORD OF WATER LEVEL READINGS** 

: WSP

Location: Frisco, TX

Project Name: North CAMU GW Monitoring

Project No.: 2040906201

122			_	_	_		_	_	_	_	_		_	-	-		_	_		_		-		-	_		_				-
Comments			and the second second second second																												
By	VTB		E N I N		12.0		1400				1			1000								2004	1 - 2 - A								
Water Level Elevation								100 C		100 A	1. (C		•						101212101	atter a M	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				1		「 」、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、 、	10 THS 11	the state of the second s		
Survey Mark Elevation	0.01 - 5.02	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		· · · · · · · ·		1 1 1 1 1 N	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1.25	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	100 - 100 S	-		a la marti		Carbon States	S. P. Shield		100 100 100 100 100 100 100 100 100 100	S THE ALL S	Contraction of the second	ALL STATES	New Control of the	*4461-11-1-11-1	時代です。	14 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Stream Stream	THE OWNER	101.00	The second second	「日本」である
Total Depth (FT)	22,55	22,70	24.05	25,45	25,25	28.07	28.25	19,15	17.95	32,92	23,15	MN	MN			「「「「「」」	9		「「「「「「」」	a solution and		4.5.5	Solo tast	The Let A			ALC: NOT A		Carl Contraction	14 D L 184	
Water Level Below M.P. (FT)	13,29	20.66	14.63	17.59	14.77	16.82	16.50	61.6	0 PUE 44	15,54	15.76	11.72	8.03		Contraction of the second	State of the state			11 - D S				NI-LIPER.			New Law	AVENUE No. 2	the second	1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Measurement Point (M.P)	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC	TOC 7.5	TOC	TOC	TOC	TOC				1. 10. 10. 20					100 miles - 100 miles - 100 miles	AND IN THE REAL		N. N. N. N. S.		The sea		and a second		
Measuring Device / Serial No.	, UDI LSN MOS							144 - 14 - 14 - 14 - 14 - 14 - 14 - 14	The second second				A		C. S.			AND A REPUBLICATION AND AND AND AND AND AND AND AND AND AN		山口 こうしょう ため見い	Martin London - and Sharey		HAVE ANY AND A	Contraction of the second				E. L. C. L. L. B. M. C.			
Time		1424				THE PERSON	Sector 1	100			1 4 4 4 M		10.20				12.00	Star Star		Cine -			14 14		Here and		State of the	and a	No.	C The Ball	
Date	11-29-23	1											4	7				100 A 100 A			and the second second	A STATISTICS	H. C. S. S. S.				No. of Street, or Stre				
Borehole No.	MW-45	PMW-19R	LMW-8	LMW-17	LMW-5	LMW-21	PMW-20R	MW-41	MW-47	LMW-9R	LMW-22	P-1	MW-42		Sec. Sec.			The second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Server Section		No. of Concession, No.			TAL SEAL		A ROLLING	a service s	C. C. Sandar	

Sheet 1 of 1



Project Ref:	North	CAMU G		Project No. :	2040906201		
WEATHER O	CONDITIC	ons 4g	5	_Weather	AIN		
SAMPLE INF	FORMAT	ION					
Sample L	ocation _	LMW-22	2	20.000	Sample No.	MW-22	
Sample D	Date	11-30-1	23 Time	0855	_Sample ByJT	B	Contraction of the
Sample M	Aethod	Peristalti	ic Pump		_ Sample Type _ Gr	ab	
Begin Purge	830	Water Leve Well Volum	el Before Purging ne: <u>7.39 FT</u>	15,76 x 0.163 gal/FT	FT BTOC TD: = 1.20 gallons	23.15	FT BTOC
@	mL/min	Volume Wa	ater Removed Br	efore Sampling:	).25 gallons		
250	1	Water Leve	el Before Samplin	na: 16.02	FT BTO	С	
	10.144	Water Leve	el After Sampling	16,0	Y FT BTO	c	
	1	Appearanc	e of Sample:	clear. no	oder	14 19 19 19	
FIELD MEAS	SUREME	NTS		200 1000			
Pa	arameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
	Timo	bhmm	0835	0840	0845	0850	0855
Volume Di	ischarge	nals	.25	50	75	1.00	1,25
VOIDING DA	nH	Standard	6.64	6.69	10.79	6.82	6.83
Spec	Cond.	mS/CM	0:136	0,659	0.679	0.671	0.672
Cpc.	Turbidity	NTU	3.9	4.6	4.3	4.2	4.3
Tem	perature	°C	20,2	20.7	2013	20.4	20,5
Pur	mo Rate	mL/min	250	250	250	250	250
Wat	ter Level	FT BTOC	15,93	15,97	15198	16.02	16.04
LABORATO	RY CON	TAINERS					
Sub-		7		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Type and Size of	Filtered	Type of
Sample		P	Analysis Requeste	be	Sample Container	(Yes or No)	Preservative
1	Total N	letals		an the area	1 x 120 mL Poly	ND	HNO <sub>3</sub>
2	Dissolv	ed Metals		Street Parts	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3	9	C. A.					
4	1 3. A.L.	2.3				No. A SUSPA	and the second second
5	N. S. IN	2.04			161.512588		1425

REMARKS:

6 7 8

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump Air-Lift Pump

Other\_\_\_



Project Ref: <u>Nort</u>	h CAMU G	roundwater Mor	nitoring	<u></u>	Project No. :	2040906201
WEATHER CONDITI	<u>ons</u> 4	5°	_Weather	PAN		
SAMPLE INFORMAT	TION					
Sample Location	LMW-9H	1	AD IS	_ Sample No	MW-9R	
Sample Date 11	50-20	lime		_Sample By1	Б	
Sample Method	Peristalti	c Pump		_ Sample Type <u>Gr</u>	ab	
Begin Purge @ 0150	Water Leve Well Volun	el Before Purging ne: <u>17.38 FT</u>	: <u>15,54</u> x 0.163 gal/FT	FT BTOC TD: = 2,9,5 gallons	32.92 F	-T BTOC
@mL/min	Volume W	ater Removed Be	ofore Sampling: _	1,25 gallons		
250	Water Leve	el Before Samplir	na: 15,93	FT BTO	c	
	Water Lev	el After Sampling	15.9	4 FT BTO	C	
	Appearanc	e of Sample:	clean n	2 0007	C. Martin	
FIELD MEASUREME	INTS		- (			
Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	0755	0800	0805	0810	0815
Volume Discharge	gals	,25	150		1.00	1,25
pH	Standard	6.42	6.57	6.63	6.61	6.60
Spec. Cond.	mS/CM	2,111	2,134	2,139	2.137	2,131
Turbidity	NTU	3,6	4.2	3.9	316	3.7
Temperature	°C	20,3	2017	20,8	20.9	20,9
Pump Rate	mL/min	250	250	250	250	250
Water Level	FT BTOC	15.74	15,86	15.89	15,93	15.94
LABORATORY CON	ITAINERS					
Sub- Sample	,	Analysis Requeste	эd	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative

Sub- Sample	Analysis Requested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	1 x 120 mL Poly	ND	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3				
4			CIRCUIT CI	
5			the states	
6		1611 - H. M. 2011	Var Heinel	
7				
8		and states		Section and

**REMARKS:** 

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump Other



Project Ref: _	North CAMU (		Project No. : _	2040906201		
WEATHER CO	re	5	_Weather	NNY		
Sample INFO Sample Da Sample Me Begin Purge @ 1455 @ m 250	ORMATION         cation       MW-47         te       129-23         othod       Peristal         othod       Water Lev         othod       Volume V         Ut/min       Volume V         Water Lev       Water Lev         Water Lev       Water Lev         Appearar       Peristal	Time tic Pump /el Before Purging me: <u>10,39</u> FT Vater Removed Be /el Before Sampling vel After Sampling ice of Sample:	2 520 3 7.50 x 0.163 gal/FT efore Sampling: ng: y: VIII M	Sample NoM Sample By Sample TypeG FT BTOC TD: = 1,70 gallons /.25 gallons FT BTO FT BTO P 07.7	W-47 TB rab 17.95 c c	FT BTOC
FIELD MEASI	UREMENTS	1942		N. S. LANSING	1. 1. 1. 1.	
Para Volume Dise Spec. Tu Tempe Pum Wate LABORATOR	ameter Units Time hhmm charge gals pH Standard Cond. mS/CM urbidity NTU erature °C p Rate mL/min r Level FT BTOO	$     \frac{Measurement}{ 500}     .25    56                                   $	<u>Measurement</u> <u>1505</u> <u>1505</u> <u>1.50</u> <u>1.391</u> <u>7.4</u> <u>20,2</u> <u>250</u> <u>8.02</u>	<u>Measurement</u> 1510 .75 .6.71 1.39L 7.7 20.0 .250 8.06	<u>Measurement</u> 1515 <u>h00</u> 1.391 7.3 20,3 250 &11	Sample 1520 1.25 6.78 1.392 7.1 7.1 20.4 250 8.15
Sub- Sample		Analysis Requeste	ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
string through	Total Metals	et an eutro	NO. S. C. S. Mark	1 x 120 mL Poly	ND	HNO <sub>3</sub>
2	Dissolved Metal	S		1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
2	The second second second		Real Provention	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Second and the second second	

Teflon

**REMARKS:** 

Peristaltic Pump Air-Lift Pump Submersible Pump Other\_\_\_\_\_ Hand Pump



Project Ref:	North CAMU G	roundwater Mor	nitoring		Project No. : _	2040906201
WEATHER CO		5°	_Weather	SUNNY		
SAMPLE INFO	RMATION					
Sample Loca	ation MW-41			_ Sample No	MW-41	Series and the state
Sample Date	e_1-29-23	3 Time	1430	Sample By	JIR	
Sample Met	hod Peristalt	ic Pump		Sample Type	Grab	
Begin Purge @	Water Lev	el Before Purging	<u>9.79</u>	FT BTOC TD	: 19.15	FT BTOC
1410	vveli volur	ne: (i JU FI	x 0.163 gal/i		5	
@ 250 mL	/min Volume W	ater Removed Be	efore Sampling:	A LI gallon	<u>s</u>	
250	Water Lev	el Before Samplin	ng:	V.II FIBIO		
	Water Lev	el After Sampling	: <u> </u>	PILY FT BTC		
	Appearance	ce of Sample:	clear n	io sast	<u> </u>	
FIELD MEASU	REMENTS			and a start of the		
Para	meter Units	Measurement	Measuremen	t Measurement	Measurement	Sample
States and states	Time hhmm	1415	1420	1425	1 - 3 - 1 - 4	1430
Volume Disc	harge gals	.25	,SD	175	A CONTRACTOR	1,00
Volume Dioo	pH Standard	10.74	6.77	6.71		6.72
Spec.	Cond. mS/CM	0.796	0.812	0,816		0,819
Tu	rbidity NTU	2,6	31	27		2,8
Tempe	rature °C	19.4	19.3	19,2	Carlo Paris	19.4
Pump	Bate mL/min	250	250	250		250
Water	Level FT BTOC	9.96	10.06	10711		10,14
LABORATORY	CONTAINERS					
Sub- Sample		Analysis Requeste	ed	Type and Size of Sample Containe	Filtered r (Yes or No)	Type of Preservative
						1110

Sample		Sample Container	(Yes or No)	Preservative
1	Total Metals	1 x 120 mL Poly	nrO	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3		110 P. G. S. E.	1	
4				22.25.222
5	and the second second	States and the state of the	POLICE SET	
6		Street and states and		Sitting and the
7		Charles and a second		1 march 1
8				

**REMARKS:** 

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other



Project Ref:	Project Ref: North CAMU Groundwater Monitoring				Project No. : _	2040906201
WEATHER CON Temperature	UDITIONS US	0	_Weather	SUNNY		
SAMPLE INFOR	RMATION					
Sample Loca	tion PMW-20	JR	1	_ Sample NoF	PMW-20R	Here the construction
Sample Date		<u>3</u> Time	1345	Sample By	LR	
Sample Meth	od Peristalti	ic Pump	A COMPANY AND A	_ Sample Type <u>G</u>	rab	
Begin Purge @ 1322	Water Leve Well Volun	el Before Purging	: <u>11, .58</u> x 0.1 <u>63 gal/F</u>	$\frac{\text{FT BTOC}}{\Gamma = 1, 9} \frac{\text{TD:}}{\text{gallons}}$	28,25	FT BTOC
@mL/	min Volume W	ater Removed Be	fore Sampling:	1,25 gallons	5	
250	Water Leve	el Before Samplir	na: 16	91. FT BTO		
	Water Leve	el After Sampling	16.	97 FT BTO	DC .	
	Appearanc	e of Sample:	clear no o	207	Stars and all	
			Stern Ina	COME SHOW IN		
FIELD MEASUR	<u>REMENTS</u>			Management	Messurement	Sample
Param	heter Units	Measurement	Measurement	Measurement	Measurement	12/16
	Time hhmm	1325	1550	1325	1210	- 1275
Volume Disch	large gals	125	,50		1,00	
	pH Standard	4.86	6.81		- 6.15	- 6.17
Spec. C	ond. mS/CM	1.417	11/16			
Turc	bidity NTU	8.6			7.5	101
Tempera	ature °C	17.1	17.5	- 17.6	200	
Pump	Rate mL/min	250	250		11 41	1997
Water L	_evel FT BTOC	_)621	16.84		16.74	Ber//
LABORATORY	CONTAINERS					
Sub- Sample	,	Analysis Requeste	be	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1 T	otal Metals	Linde Contr	and souther	1 x 120 mL Poly	ND	HNO <sub>3</sub>

REMARKS: \_

2

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

**Dissolved Metals** 

Peristaltic Pump Submersible Pump Hand Pump Air-Lift Pump

1 x 120 mL Poly

Yes (0.45 µm)

HNO<sub>3</sub>

Other\_



Project Ref:	Project Ref: <u>North CAMU Groundwater Monitoring</u>					2040906201
WEATHER C Temperati	ure	15°	Weather	SUNN 4		
SAMPLE INF	ORMATION					
Sample Lo	cation LMW-2	1		_ Sample No	LMW-21	Contraction of the second
Sample Da	ate	13 Time	a  255	Sample By	IB	
Sample Mr	ethod Peristalt	tic Pump		_ Sample Type <u>G</u>	rab	
Beain Purge (	@ Water Lev	vel Before Purging	a: 16.82	FT BTOC TD:	28.07	FT BTOC
12	35 Well Volur	me: 11.25 FT	x 0.163 gal/F7	r = 1.80 gallons	5	
@ ICDT	nL/min Volume W	Vater Removed B	efore Sampling:	1,00 gallons	s	
- Du	Water Lev	vel Before Sampli	na: 17.21	FT BTO		
	Water Lev	vel After Sampling	17.5	28. FT BTO		
	Appearan	ce of Sample:	clear, no	rds7		
TEL D MEAS	UDENENTO					
FIELD MEAS	UKEMENTS	Measurement	Measurement	Measurement	Measurement	Sample
<u>1 di</u>	ameter onto	Incon	In 46	INCO		1255
M Loss DL	Time hnmm	1210		750	A CONTRACTOR	100
Volume Dis	scharge gais	118	101			1.71
Spor	pH Standard	12111	1217	- 1321	The second	1.351
Spec	. CONG. MO/OW	1.2		1.1	Contraction of the	1.2
Temr		201	2016	20.7	2000 C 1950	20.8
Pur	mo Rate ml /min	150	250	250		250
Wate	er Level FT BTOC	: 17.17	17.22	17.26		17.28
	BY CONTAINERS					
	T	A State Barrier Barrier		Trans and Size of	Tillound	Time of
Sub- Sample		Analysis Requestr	ed	Sample Container	(Yes or No)	Preservative
4	Total Motals	"Depart Plant In 1944	Contract the month	1 x 120 mL Poly	NO	HNO

Sample	Analysis nequested	Sample Container	(Yes or No)	Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3				Cold Settled S
4			「大陸キャー」	A set is
5				
6				
7				
8		Garage Charles Contract		Sector Control

**REMARKS:** 

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other\_



Project Ref: North CAMU Groundwater Monitoring					Project No. : _	2040906201
WEATHER CO Temperatu	ONDITIONS	55°	Weather	SUNNY		
SAMPLE INFO	ORMATION	W-5	1016	_ Sample No	LMW-5/DUP-01	
Sample Da Sample Me	ethod <u>Peri</u>	istaltic Pump	ime <u>121</u> 2	Sample By Sample TypeC	àrab	
Begin Purge @  155 @ 250 <sup>m</sup>	Water Well V mL/min Volum Water Water Appea	Level Before Purg /olume: <u>)0148</u> ne Water Removed r Level Before Sam r Level After Samp arance of Sample:	ying: <u>14.77</u> <u>FT x 0.163 gal/F</u> J Before Sampling: npling: <u>14.</u> Ning: <u>14.</u>	$\frac{FT BTOC}{T = 1.70 gallon:}$ $\frac{1.00 gallon:}{98 FT BTC}$ $\frac{98 FT BTC}{74 FT BTC}$	<u>: 25,25</u> <u>s</u> <u>s</u> <u>x</u> <u>x</u>	FT BTOC
FIELD MEAS	UREMENTS		21.11			
Par	rameter Uni	its Measureme	nt Measurement	Measurement	Measurement	Sample
	Time hhm	nm 1200	1205	1210		1215
Volume Dis	scharge gal	ls .25	,SD	.75	Stand and and	120
	pH Stand	dard 7.02	7,06	7.07	<u></u>	- 1.01
Spec.	. Cond. mS/C	CM 0.681	0.693	0.691		0.670
TI	urbidity NT'	U 4.5	3.7	3.9	No. A. CONTRACTOR	
Temp	erature °C	20.7	20,6	20.4	<u> </u>	20,5
Pum	np Rate mL/r	min 250	250	250	Although 21 and and	
Wate	er Level FT BT	roc 14.95		14,99		4.78
LABORATOR	TY CONTAINE	ERS				
Sub- Sample	6447	Analysis Requ	ested	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
1	Total Metals	ALL CONSTRUCT	Contest Person in the	2 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissolved Mr	etals	A STATE OFFICE	2 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>

NA = Not applicable

**REMARKS:** 

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon

**DUP-01** collected

**Dissolved Metals** 

Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other\_

2 x 120 mL Poly

HNO<sub>3</sub>



Project Ref: North CAMU Groundwater Monitoring						Project No. : _	2040906201
WEATHER CC	ONDITI(	ons S	S°	_WeatherS	VNN Y	3-5-5-5-5	
SAMPLE INFO	ORMAT	ION					
Sample Lor	cation_	LMW-17	1		_ Sample NoI	_MW-17	Selection of the select
Sample Da	te_11-	29.23	Time	e 1140	_Sample By	ITB	The state of the second
Sample Me	thod	Peristalt	ic Pump		_ Sample TypeG	rab	and the second
Begin Purge @	2	Water Leve Well Volur	el Before Purginç ne: 7.86 FT	j: <u>17.59</u> x 0.653 gal/FT	FT BTOC TD:	25,45	FT BTOC
@ 250 "	L/min	Volume W	ater Removed Be	efore Sampling:	(100 gallons	<u>;</u>	
		Water Levr	el Before Samplir	ng: [1.7]	FTBIO	<u>/C</u>	
		Water Leve	el After Sampling	1: <u></u>	FT BTO	<u>ic</u>	
		Appearance	e of Sample:	clean, no	0901		
FIELD MEASI	UREME	INTS		21.14.2012			
Parr	ameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
	Time	hhmm	1125	1130	1135	- 71	114D
Volume Dise	charge	gals	.25	,SD	,75		1.00
	pH	Standard	6.86	4.89	6.84		6.86
Spec.	Cond.	mS/CM	0.717	0.726	0.721	S. Sall	0.723
Τι	urbidity	NTU	2.6	2.(	2,3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2.6
Tempe	erature	°C	19.4	19.4	19.8		19.7
Pum	p Rate	mL/min	250	250	250		250
Water	r Level	FT BTOC	17.86	17.89	17.91	Gerthent - A	17.92
LABORATOR	Y CON	TAINERS					
Sub- Sample		I	Analysis Request	ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative
· · · ·	Total	Antolo	o miles to trade	A Charles and the State of the	1 x 120 ml Poly	NO	HNO

Sample		Sample Container	(Yes or No)	Preservative
1	Total Metals	1 x 120 mL Poly	NO	/ HNO3
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3		that the company of		
4				the second second
5				
6				1
7				
8		the second of the second		

**REMARKS:** 

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other\_\_\_



Project Ref: <u>Nort</u>	ject Ref: <u>North CAMU Groundwater Monitoring</u>				Project No. :	2040906201
WEATHER CONDITI	ons 50	0	_WeatherS	UNNY	152.8	
SAMPLE INFORMAT	TION					
Sample Location	LMW-8	ki 20. (2)		Sample No	MW-8	21-12-12-22-2
Sample Date	1-21.23	Time	1105	_Sample By	VIB	the second second
Sample Method	Peristalti	c Pump	8575-11-1-1-	_ Sample Type _ G	rab	
Begin Purge @ 1040	Water Leve Well Volum	el Before Purging ne: 9.22 FT	: 14,83 x 0.163 gal/FT	FT BTOC TD: = 1.5 gallons	24.05	FT BTOC
@ ocomL/min	Volume Wa	ater Removed Be	efore Sampling:	1.25 gallons	1.11	
250	Water Leve	el Before Samplir	ng:	FT BTO	C	
	Water Leve	el After Sampling	:	FT BTO	С	
	Appearanc	e of Sample:	States Sec.			
FIELD MEASUREME	INTS		The sector	Ale and a	14.6.6.4.4	
Parameter	Units	Measurement	Measurement	Measurement	Measurement	Sample
Time	hhmm	1045	1050	1055	100	1105
Volume Discharge	gals	125	SO	75	1,00	125
oH	Standard	6.72	6.74	6.89	6.86	6.85
Spec. Cond.	mS/CM	1.212	1.174	0.961	0,967	0.971
Turbidity	NTU	3.6	42	4.4	4.1	4.2
Temperature	°C	20.7	206	20.5	20.5	20-6
Pump Rate	mL/min	250	250	250	250	250
Water Level	FT BTOC	15172	15,17	15,19	15.20	15,21
LABORATORY CON	TAINERS					
Sub- Sample	A	nalysis Requeste	ed	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative

Sub- Sample	Analysis Requested	Sample Container	(Yes or No)	Preservative
1	Total Metals	1 x 120 mL Poly	NO	HNO <sub>3</sub>
2	Dissolved Metals	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3				and the second
4				
5			1919 A. S. M.	San March
6				2 2 5 7
7				
8				

**REMARKS:** 

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other\_



Project Ref: <u>North CAMU Groundwater Monitoring</u>					the state of the second se	Project No. : _	2040906201
WEATHER C	CONDITI	ons SC	)°	_Weather	SUNNY		
SAMPLE INF	FORMAT	ION					
Sample Lo	ocation _	PMW-19	9R		Sample NoF	MW-19R	Sec. Sec. Sec.
Sample Da	ate 1	1-29-23	, Time	1020	Sample By	JIR	
Sample M	lethod	Peristalti	c Pump		Sample TypeG	irab	
Begin Purge (	@	Water Leve	el Before Purging	: 20.66	FT BTOC TD	: 22,70	FT BTOC
1000	)	Well Volum	ne: 2,04 FT	x 0.163 gal/	FT = 0.35 gallons	S	
@ ~ 5 0 "	mL/min	Volume Wa	ater Removed Be	ofore Sampling:	1.00 gallons	<u>s</u>	
250		Water Leve	el Before Samplir	ng: 20	7.9/ FT BTC	)C	
		Water Leve	el After Sampling	:20	192 FT BTC	)C	
		Appearanc	e of Sample:	clean, 1	no odor		
FIELD MEAS	SUREME	NTS					
Pa	rameter	Units	Measurement	Measuremen	t Measurement	Measurement	Sample
0	Time	hhmm	1005	1010	1015		1020
Volume Dis	scharge	gals	.25	.50	.75		1.00
	pH	Standard	6.71	6.75	6.76		6.74
Spec	c. Cond.	_S/CM	1.342	1.331	1.334		1141
Т	<b>Furbidity</b>	NTU	9.62	11.71	11.74	Station and a	111
Temp	perature	°C	20.7	20.9	20.9	Set a Store	20,8
Pun	mp Rate	mL/min	250	250	250		250
Wate	er Level	FT BTOC	20.86	20,89	20.91	1210 TO 102 221	20.92
LABORATOR	RY CON	TAINERS					
Sub-		A. Hatsel			Type and Size of	Filtered	Type of
Sample		1	Inalysis nequeste	30	Sample Container	(Yes or No)	Preservative
1.	Total N	<b>Netals</b>	A A Line N	100 A 100	1 x 120 mL Poly	YES	HNO <sub>3</sub>
2	Dissol	ved Metals			1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>
3	1.32	F-1 AV-4	A START	Sec. 1	S S MALLES		124.5+11.3 P.Y
4	1200		1.1.1.1.1.1.1.1	S. Salar			1.1.5 54.5
5	1.1				No. of Concerning Street, St		

**REMARKS:** 

6 7 8

NA = Not applicable

SAMPLING METHODS:

Bailer: PVC/PE Stainless Steel Teflon Peristaltic Pump Submersible Pump Hand Pump

Air-Lift Pump

Other\_



Project Ref:	Project Ref: North CAMU Groundwater Monitoring				Project No. : 2040906201		
WEATHER CON Temperature	NDITIONS	50°	_Weather	JNY			
SAMPLE INFO	RMATION						
Sample Loca Sample Date Sample Meth	tion <u>MW-45</u> <u>1-29-23</u> hod Peristalt	Time	0945	Sample No. <u>N</u> Sample By <u>Sample Type</u>	<u>/W-45/MS-01/MS</u> JTB rab	<u>iD-01</u>	
Begin Purge @ 092C	Water Leve Well Volun	el Before Purging ne: <u>1.26 FT</u>	: 13.29 x 0.163 gal/FT	FT BTOC TD: = 1.5 gallons	22.55 F	T BTOC	
@ <u>25</u> 0 <sup>mL/</sup>	'min Volume Wa Water Leve Water Leve Appearanc	ater Removed Be el Before Samplin el After Sampling ce of Sample:	fore Sampling: Ig:3,6( :3,64 ClanNO ,	1,25 gallons FT BTO( FT BTO( Stal)?	<u> </u>		
FIELD MEASU	REMENTS						
Parar	meter Units	Measurement	Measurement	Measurement	Measurement	Sample	
A Party Les	Time hhmm	0425	0930	0935	0 740	0945	
Volume Disch	narge gals	25	,50	.75	1.00	1:25	
	pH Standard	7.06	7.09	7.14			
Spec. C	Cond. mS/CM	0.001	0.001	0.6.14	Dibri	0.611	
Tun	bidity NIU	- S.U 14 9	S.L	19.1	19.4	19 2	
Pump	ature C	- 25n	250	250	250	250	
Water	Level FT BTOC	13.47	13.56	13.59	13.61	13.64	
LABORATORY	CONTAINERS	State 1					
Sub- Sample	F.S.S.	Analysis Requeste	эd	Type and Size of Sample Container	Filtered (Yes or No)	Type of Preservative	
1 1	Total Metals	and the state	at at the sty	1 x 120 mL Poly	A(0	HNO <sub>3</sub>	
2 [	Dissolved Metals		15 M 1 1 1 1 1	1 x 120 mL Poly	Yes (0.45 µm)	HNO <sub>3</sub>	

REMARKS:	MS-01/MSD-01 collected.
Ball States	to the source of the second

NA = Not applicable

SAMPLING METHODS: Bailer: PVC/PE

Stainless Steel Teflon

Peristaltic Pump Air-Lift Pump Submersible Pump Hand Pump

Other\_

APPENDIX C

Groundwater Laboratory Analytical Results



10450 Stancliff Rd. Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887

September 21, 2023

William Wedge WSP Golder 701 Emerson Road Suite 250 Creve Coeur, MO 63141

Work Order: HS23090922

Laboratory Results for: Frisco CDC GW North CAMU GW Qty

Dear William Wedge,

ALS Environmental received 12 sample(s) on Sep 14, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Her M

Generated By: JUMOKE.LAWAL Tyler Monroe

### **ALS Houston, US**

# Client: WSP Golder Project: Frisco CDC GW North CAMU GW Qty WorkOrder: HS23090922

TRRP Laboratory Data Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
    - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,b) Calculated %R for each analyte, andc)The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

### **ALS Houston, US**

Client:	WSP Golder	
Project:	Frisco CDC GW North CAMU GW Qty	TRRP Laboratory Data Package Cover Page
WorkOrder:	HS23090922	i ackage cover i age
Rel	ease Statement. I am responsible for the release of this laboratory data	a nackage. This laboratory is

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [] TCEQ or [] \_\_\_\_\_\_ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Tyler Monroe

3 of 33

		Laboratory Review Checklist: Re	eportable Data	1				
Labor	atory l	Name: ALS Laboratory Group	Date: 09/21/20	)23				
Projec	rt Nam	e: Frisco CDC GW North CAMU GW Oty Labo	nher I	482300	0922			
Powie	Wor NL	ame: Tyler Monroe	. 2000	21 20044				
#1		Description Prep I	Datch inumber(s)	): 2006.	51,200661	NT 4 3	ND4	ED#5
#* D1	A <sup>2</sup>	Chain of output (C O C)		Yes	No	NA'	NR*	EK# <sup>3</sup>
кі		Chain-oi-Custody (U-U-U)						
		Did samples meet the laboratory's standard conditions of sample a	cceptability	$\mathbf{v}$				
		Wore all dependences from the dependence of the second sec	ntion come (9	Λ V		-	-	
D2		were all departures from standard conditions described in an exception of an exception of the standard conditions described in an exceptio	puon report?	Λ				
K2	0I	sample and quality control (QC) identification	ID 1 2	37				
		Are all field sample ID numbers cross-referenced to the laboratory	D numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding	ng QC data?	X				
R3	OI	Test reports						
		Were all samples prepared and analyzed within holding times?		X				
		Other than those results < MQL, were all other raw values bracket	ed by					
		calibration standards?		X				
		Were calculations checked by a peer or supervisor?		X				
		Were all analyte identifications checked by a peer or supervisor?		Х				
		Were sample detection limits reported for all analytes not detected	?	Х				
		Were all results for soil and sediment samples reported on a dry we	eight basis?			Х		
		Were % moisture (or solids) reported for all soil and sediment sam	ples?			Х		
		Were bulk soils/solids samples for volatile analysis extracted with	methanol per					
		SW-846 Method 5035?	1			Х		
		If required for the project, TICs reported?				Х	1	1
R4	0	Surrogate recovery data						
		Were surrogates added prior to extraction?				X		
		Were surrogate percent recoveries in all samples within the laborat	tory OC					
		limits?				x		
R5	OI	Test reports/summary forms for blank samples						
	01	Were appropriate type(s) of blanks analyzed?		X				
		Were blanks analyzed at the appropriate frequency?	X					
		Were method blanks taken through the entire analytical process in	cluding					
		preparation and if applicable cleanup procedures?	leiuung	x				
		Were blank concentrations $<$ MOL <sup>2</sup>		X X				
D6	OI	Laboratory control complex (LCS):		Λ				
ко	01	Ware all COCs included in the LCS?		v				
		were all COCs included in the LCS?	1' 1	Λ				
		was each LCS taken through the entire analytical procedure, inclu	aing prep and	v				
		Cleanup steps?		A V				
		Were LCSs analyzed at the required frequency?		A V				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory Q	C limits?	X				
		Does the detectability data document the laboratory's capability to	detect the					
		COUS at the MDL used to calculate the SDLs?		X				
		Was the LCSD RPD within QC limits?		X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data						
		Were the project/method specified analytes included in the MS and	d MSD?	Х				
		Were MS/MSD analyzed at the appropriate frequency?		Х				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC	limits?	Х				
		Were MS/MSD RPDs within laboratory QC limits?		X				
<b>R8</b>	OI	Analytical duplicate data						
		Were appropriate analytical duplicates analyzed for each matrix?				Х		
		Were analytical duplicates analyzed at the appropriate frequency?				Х		
		Were RPDs or relative standard deviations within the laboratory Q	C limits?			Х		
R9	OI	Method quantitation limits (MQLs):						
		Are the MQLs for each method analyte included in the laboratory	data package?	Х				
		Do the MQLs correspond to the concentration of the lowest non-ze	ero calibration					
		standard?		Х				
		Are unadjusted MQLs and DCSs included in the laboratory data pa	ackage?	Х				
R10	OI	Other problems/anomalies	<u> </u>					
-		Are all known problems/anomalies/special conditions noted in this	s LRC and					
		ER?		x				
		Were all necessary corrective actions performed for the reported d	ata?	X				
		Was applicable and available technology used to lower the SDL at	nd minimize	1				
		the matrix interference affects on the sample results?		x				
		Is the laboratory NFLAC-accredited under the Texas Laboratory F	Program for	1		1	1	1
		the analytes matrices and methods associated with this laboratory	data packaga?	v				
	L	the analytes, matrices and methods associated with this laboratory	uata package?	Λ				<u> </u>

		Laboratory Review Checklist	: Supporting Data	a				
Labo	ratory	Name: ALS Laboratory Group LR	C Date: 09/21/202	23				
Proje	ct Nan	ne: Frisco CDC GW North CAMU GW Qty La	boratory Job Numl	ber: HS	\$230909	022		
Revie	ewer N	ame: Tyler Monroe Pre	p Batch Number(s):	200631	,200661			
# <sup>1</sup>	A <sup>2</sup>	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response factors for each a	analyte within QC					
		limits?		X				
		Were percent RSDs or correlation coefficient criteria met?		X				
	-	Was the number of standards recommended in the method used	for all analytes?	X			_	
		Were all points generated between the lowest and highest standa	ard used to					
	-	calculate the curve?		X				
	-	Are ICAL data available for all instruments used?		X			_	
		Has the initial calibration curve been verified using an appropria standard?	ate second source	X				
S2	OI	Initial and continuing calibration verification (ICCV and Co continuing calibration blank (CCB)	CV) and					
5-	01	Was the CCV analyzed at the method-required frequency?		X				
		Were percent differences for each analyte within the method-rec	uired OC limits?	X				
		Was the ICAL curve verified for each analyte?	1	X				
		Was the absolute value of the analyte concentration in the inorg	anic CCB < MDL?	Х				
<b>S</b> 3	0	Mass spectral tuning:						
	1	Was the appropriate compound for the method used for tuning?		Х				
		Were ion abundance data within the method-required QC limits	?	Х				
S4	0	Internal standards (IS):						
		Were IS area counts and retention times within the method-requ	ired QC limits?	Х				
~ =		Raw data (NELAC section 1 appendix A glossary, and section	5.12 or ISO/IEC					
S5	OI	17025 section						
		Were the raw data (for example, chromatograms, spectral data)	reviewed by an					
		analyst?	J_4_9	X				-
66	0	were data associated with manual integrations hagged on the ra	iw data?	Λ				
50	0	Dual column confirmation	002			v		
67	0	Tentetively identified compounds (TICs):				Λ		
51	0	If TICs were requested were the mass spectra and TIC data sub	ject to appropriate					
		checks?	jeet to appropriate			x		
<b>S</b> 8	T	Interference Check Sample (ICS) results:				21		
50	-	Were percent recoveries within method OC limits?		X				
<b>S</b> 9	Ι	Serial dilutions, post digestion spikes, and method of standa	rd additions					
		Were percent differences, recoveries, and the linearity within the	ne OC limits					
		specified in the method?		Х				
S10	OI	Method detection limit (MDL) studies						
		Was a MDL study performed for each reported analyte?		Х				
		Is the MDL either adjusted or supported by the analysis of DCS	s?	Х				
S11	OI	Proficiency test reports:						
		Was the laboratory's performance acceptable on the applicable p	proficiency tests or					
		evaluation studies?		X				
S12	OI	Standards documentation						
		Are all standards used in the analyses NIST-traceable or obtained	ed from other					
010	01	appropriate sources?		X				
513	OI	Compound/analyte identification procedures		v				
<b>C14</b>	01	Are the procedures for compound/analyte identification docume	ented /	X				
514	01	Was DOC conducted consistent with NEL AC Chapter 5C on IC	O/IEC 49	v				
		The documentation of the analyst's competency up to date and on					+	
<b>S</b> 15	01	Verification/validation documentation for methods (NELAC	Chap 5 or					
515		Are all the methods used to generate the data documented, verif	ied, and validated,	x				
S16	OI	Laboratory standard operating procedures (SOPs)						
~10		Are laboratory SOPs current and on file for each method perform	med?	X				
tems id	lentified	by the letter "R" must be included in the laboratory data package submitted in	the TRRP-required rep	ort(s). It	ems identi	fied by the le	etter "S" sho	uld be
retained O = Org NA = No NR = No	d and ma ganic Ana ot Applic ot Reviev	Ide available upon request for the appropriate retention period. alyses; I = Inorganic Analyses (and general chemistry, when applicable); able; wed;				-		

NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports							
Laboratory Name: ALS Laboratory Group LRC Date: 09/21/2023							
Project Name: Frisco CDC GW North CAMU GW Qty	Laboratory Job Number: HS23090922						
Reviewer Name: Tyler Monroe	Prep Batch Number(s): 200631,200661						
ER# <sup>5</sup> Description							
No Exceptions							
Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NB = Not Reviewed;							
R# = Exception Report identification number (an Exception Report should be	completed for an item if "NR" or "No" is checked).						

# Client:WSP GolderProject:Frisco CDC GW North CAMU GW QtyWork Order:HS23090922

### SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23090922-01	MW-45	Groundwater		11-Sep-2023 09:55	14-Sep-2023 10:00	
HS23090922-02	PMW-19R	Groundwater		11-Sep-2023 10:30	14-Sep-2023 10:00	
HS23090922-03	LMW-8	Groundwater		11-Sep-2023 11:10	14-Sep-2023 10:00	
HS23090922-04	LMW-17	Groundwater		11-Sep-2023 12:05	14-Sep-2023 10:00	
HS23090922-05	LMW-5	Groundwater		11-Sep-2023 12:45	14-Sep-2023 10:00	
HS23090922-06	LMW-21	Groundwater		11-Sep-2023 13:25	14-Sep-2023 10:00	
HS23090922-07	PMW-20R	Groundwater		11-Sep-2023 14:05	14-Sep-2023 10:00	
HS23090922-08	MW-41	Groundwater		11-Sep-2023 14:45	14-Sep-2023 10:00	
HS23090922-09	MW-47	Groundwater		11-Sep-2023 15:30	14-Sep-2023 10:00	
HS23090922-10	LMW-9R	Groundwater		12-Sep-2023 08:45	14-Sep-2023 10:00	
HS23090922-11	LMW-22	Groundwater		12-Sep-2023 09:30	14-Sep-2023 10:00	
HS23090922-12	DUP-01	Groundwater		11-Sep-2023 12:45	14-Sep-2023 10:00	

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	MW-45	Lab ID:HS23090922-01
Collection Date:	11-Sep-2023 09:55	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	A / 19-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 00:35
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:35
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 00:35
Selenium	0.00171	J	0.00110	0.00200	mg/L	1	20-Sep-2023 00:35
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	A / 20-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 20:10
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:10
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:10
Selenium	0.00152	J	0.00110	0.00200	mg/L	1	20-Sep-2023 20:10

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	PMW-19R	Lab ID:HS23090922-02
Collection Date:	11-Sep-2023 10:30	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 00:49
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:49
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 00:49
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 00:49
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000454	J	0.000400	0.00200	mg/L	1	20-Sep-2023 20:43
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:43
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:43
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 20:43

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-8	Lab ID:HS23090922-03
Collection Date:	11-Sep-2023 11:10	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.000829	J	0.000400	0.00200	mg/L	1	20-Sep-2023 00:50
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:50
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 00:50
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 00:50
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000658	J	0.000400	0.00200	mg/L	1	20-Sep-2023 20:45
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:45
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:45
Selenium	0.00214		0.00110	0.00200	mg/L	1	20-Sep-2023 20:45

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-17	Lab ID:HS23090922-04
Collection Date:	11-Sep-2023 12:05	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.000405	J	0.000400	0.00200	mg/L	1	20-Sep-2023 00:52
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:52
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 00:52
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 00:52
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000595	J	0.000400	0.00200	mg/L	1	20-Sep-2023 20:47
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:47
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:47
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 20:47

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-5	Lab ID:HS23090922-05
Collection Date:	11-Sep-2023 12:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 00:54
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:54
Lead	0.00130	J	0.000600	0.00200	mg/L	1	20-Sep-2023 00:54
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 00:54
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000466	J	0.000400	0.00200	mg/L	1	20-Sep-2023 20:49
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:49
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:49
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 20:49

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-21	Lab ID:HS23090922-06
Collection Date:	11-Sep-2023 13:25	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.000707	J	0.000400	0.00200	mg/L	1	20-Sep-2023 00:56
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:56
Lead	0.00303		0.000600	0.00200	mg/L	1	20-Sep-2023 00:56
Selenium	0.00619		0.00110	0.00200	mg/L	1	20-Sep-2023 00:56
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000917	J	0.000400	0.00200	mg/L	1	20-Sep-2023 20:51
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:51
Lead	0.00827		0.000600	0.00200	mg/L	1	20-Sep-2023 20:51
Selenium	0.00584		0.00110	0.00200	ma/L	1	20-Sep-2023 20:51

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	PMW-20R	Lab ID:HS23090922-07
Collection Date:	11-Sep-2023 14:05	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 00:58
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 00:58
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 00:58
Selenium	0.00269		0.00110	0.00200	mg/L	1	20-Sep-2023 00:58
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	20-Sep-2023 20:59
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 20:59
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 20:59
Selenium	0.00210		0.00110	0.00200	mg/L	1	20-Sep-2023 20:59

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	MW-41	Lab ID:HS23090922-08
Collection Date:	11-Sep-2023 14:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.000882	J	0.000400	0.00200	mg/L	1	20-Sep-2023 01:00
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 01:00
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 01:00
Selenium	0.00216		0.00110	0.00200	mg/L	1	20-Sep-2023 01:00
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.000431	J	0.000400	0.00200	mg/L	1	20-Sep-2023 21:01
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 21:01
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 21:01
Selenium	0.00228		0.00110	0.00200	ma/L	1	20-Sep-2023 21:01

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	MW-47	Lab ID:HS23090922-09
Collection Date:	11-Sep-2023 15:30	Matrix:Groundwater

ANALYSES	RESULT C	QUAL SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A	N	lethod:SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.00637	0.000400	0.00200	mg/L	1	20-Sep-2023 01:02
Cadmium	U	0.000200	0.00200	mg/L	1	20-Sep-2023 01:02
Lead	U	0.000600	0.00200	mg/L	1	20-Sep-2023 01:02
Selenium	U	0.00110	0.00200	mg/L	1	20-Sep-2023 01:02
DISSOLVED METALS BY SW6020A	Method	I:SW6020A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.00778	0.000400	0.00200	mg/L	1	20-Sep-2023 21:03
Cadmium	U	0.000200	0.00200	mg/L	1	20-Sep-2023 21:03
Lead	U	0.000600	0.00200	mg/L	1	20-Sep-2023 21:03
Selenium	U	0.00110	0.00200	mg/L	1	20-Sep-2023 21:03

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-9R	Lab ID:HS23090922-10
Collection Date:	12-Sep-2023 08:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.00238		0.000400	0.00200	mg/L	1	20-Sep-2023 01:04
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 01:04
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 01:04
Selenium	0.00276		0.00110	0.00200	mg/L	1	20-Sep-2023 01:04
DISSOLVED METALS BY SW6020A	Meth	od:SW602	20A (dissolved)		Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC
Arsenic	0.00282		0.000400	0.00200	mg/L	1	20-Sep-2023 21:05
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 21:05
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 21:05
Selenium	0.00373		0.00110	0.00200	mg/L	1	20-Sep-2023 21:05

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	LMW-22	Lab ID:HS23090922-11
Collection Date:	12-Sep-2023 09:30	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.00777		0.000400	0.00200	mg/L	1	20-Sep-2023 01:06
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 01:06
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 01:06
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 01:06
DISSOLVED METALS BY SW6020A	A Method:SW6020A (dissolved)			Prep:SW3010A	/ 20-Sep-2023	Analyst: MSC	
Arsenic	0.00978		0.000400	0.00200	mg/L	1	20-Sep-2023 21:07
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 21:07
Lead	0.000916	J	0.000600	0.00200	mg/L	1	20-Sep-2023 21:07
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 21:07

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU GW Qty	WorkOrder:HS23090922
Sample ID:	DUP-01	Lab ID:HS23090922-12
Collection Date:	11-Sep-2023 12:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 19-Sep-2023	Analyst: MSC
Arsenic	0.000401	J	0.000400	0.00200	mg/L	1	20-Sep-2023 01:12
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 01:12
Lead	0.000869	J	0.000600	0.00200	mg/L	1	20-Sep-2023 01:12
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 01:12
DISSOLVED METALS BY SW6020A	Method:SW6020A (dissolved)		Prep:SW3		/ 20-Sep-2023	Analyst: MSC	
Arsenic	0.000447	J	0.000400	0.00200	mg/L	1	20-Sep-2023 21:09
Cadmium	U		0.000200	0.00200	mg/L	1	20-Sep-2023 21:09
Lead	U		0.000600	0.00200	mg/L	1	20-Sep-2023 21:09
Selenium	U		0.00110	0.00200	mg/L	1	20-Sep-2023 21:09

### Weight / Prep Log

### Client: WSP Golder Project: Frisco CDC GW North CAMU GW Qty WorkOrder: HS23090922

Batch ID: 200631		Start Date	Start Date: 19 Sep 2023 14:00		End Date: 19 Sep 2023 14:00		
Method: WATER - SW3010A					Prep Code: 3010A		
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor			
HS23090922-01		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-02		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-03		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-04		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-05		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-06		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-07		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-08		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-09		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-10		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-11		10 (mL)	10 (mL)	1	120 plastic HNO3		
HS23090922-12		10 (mL)	10 (mL)	1	120 plastic HNO3		

#### Batch ID: 200661

### Start Date: 20 Sep 2023 09:30

### End Date: 20 Sep 2023 09:30

Prep Code: 3010A DISS

### Method: DISS METALS PREP - WATER - SW3010A

Sample Final Prep Container Wt/Vol Factor Sample ID Volume HS23090922-01 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-02 10 (mL) 1 120 plastic HNO3 10 (mL) 10 (mL) 120 plastic HNO3 HS23090922-03 10 (mL) 1 HS23090922-04 10 (mL) 1 120 plastic HNO3 10 (mL) HS23090922-05 120 plastic HNO3 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-06 10 (mL) 1 10 (mL) 120 plastic HNO3 HS23090922-07 10 (mL) 10 (mL) 1 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-08 HS23090922-09 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-10 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-11 10 (mL) 10 (mL) 1 120 plastic HNO3 HS23090922-12 10 (mL) 10 (mL) 1 120 plastic HNO3

### **ALS Houston, US**

DATES REPORT

Client:	WSP Golder
Project:	Frisco CDC GW North CAMU GW Qty
WorkOrder:	HS23090922

Sample ID	Client Sam	p ID Collection Date	Leachate Date	Prep Date	Analysis Date	DF		
Batch ID: 20063	1(0)	Test Name : ICP-MS METALS BY S	W6020A		Matrix: Groundwa	ater		
H\$23000022-01	M\M_45	11 Sep 2023 00:55		10 Sep 2023 14:00	20 Sep 2023 00:35	1		
H\$23000022.02		11 Sep 2023 10:30		19 Sep 2023 14:00	20 Sep 2023 00:35	1		
11525090922-02		11 Sep 2023 10:30		19 Sep 2023 14:00	20 Sep 2023 00:49	1		
HS23090922-03		11 Sep 2023 11:10		19 Sep 2023 14.00	20 Sep 2023 00.50	1		
HS23090922-04		11 Sep 2023 12.05		19 Sep 2023 14.00	20 Sep 2023 00.52	1		
HS23090922-05	LMW-5	11 Sep 2023 12:45		19 Sep 2023 14:00	20 Sep 2023 00:54	1		
HS23090922-06	LMW-21	11 Sep 2023 13:25		19 Sep 2023 14:00	20 Sep 2023 00:56	1		
HS23090922-07	PMW-20R	11 Sep 2023 14:05		19 Sep 2023 14:00	20 Sep 2023 00:58	1		
HS23090922-08	MW-41	11 Sep 2023 14:45		19 Sep 2023 14:00	20 Sep 2023 01:00	1		
HS23090922-09	MW-47	11 Sep 2023 15:30		19 Sep 2023 14:00	20 Sep 2023 01:02	1		
HS23090922-10	LMW-9R	12 Sep 2023 08:45		19 Sep 2023 14:00	20 Sep 2023 01:04	1		
HS23090922-11	LMW-22	12 Sep 2023 09:30		19 Sep 2023 14:00	20 Sep 2023 01:06	1		
HS23090922-12	DUP-01	11 Sep 2023 12:45		19 Sep 2023 14:00	20 Sep 2023 01:12	1		
Batch ID: 200661 (0)		Test Name : DISSOLVED METALS E	BY SW6020A		Matrix: Groundwa	ater		
HS23090922-01	MW-45	11 Sep 2023 09:55		20 Sep 2023 09:30	20 Sep 2023 20:10	1		
HS23090922-02	PMW-19R	11 Sep 2023 10:30		20 Sep 2023 09:30	20 Sep 2023 20:43	1		
HS23090922-03	LMW-8	11 Sep 2023 11:10		20 Sep 2023 09:30	20 Sep 2023 20:45	1		
HS23090922-04	LMW-17	11 Sep 2023 12:05		20 Sep 2023 09:30	20 Sep 2023 20:47	1		
HS23090922-05	LMW-5	11 Sep 2023 12:45		20 Sep 2023 09:30	20 Sep 2023 20:49	1		
HS23090922-06	LMW-21	11 Sep 2023 13:25		20 Sep 2023 09:30	20 Sep 2023 20:51	1		
HS23090922-07	PMW-20R	11 Sep 2023 14:05		20 Sep 2023 09:30	20 Sep 2023 20:59	1		
HS23090922-08	MW-41	11 Sep 2023 14:45		20 Sep 2023 09:30	20 Sep 2023 21:01	1		
HS23090922-09	MW-47	11 Sep 2023 15:30		20 Sep 2023 09:30	20 Sep 2023 21:03	1		
HS23090922-10	LMW-9R	12 Sep 2023 08:45		20 Sep 2023 09:30	20 Sep 2023 21:05	1		
HS23090922-11	LMW-22	12 Sep 2023 09:30		20 Sep 2023 09:30	20 Sep 2023 21:07	1		
HS23090922-12	DUP-01	11 Sep 2023 12:45		20 Sep 2023 09:30	20 Sep 2023 21:09	1		
Work	VorkOrder: HS23090922					<b>METHOD DETECTION /</b>		
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Instru	umentID:	ICPMS06			R	EPORTING LI	MITS	
Test	Code:	ICP_DISS						
Test Number: SW		SW6020A (dissolved)	SW6020A (dissolved)			ite: ma/l		
Test	Name:	Dissolved Metals by SW6	solved Metals by SW6020A					
Туре	Analyte		CAS	DCS Spike	DCS	MDL	PQL	
А	Arsenic		7440-38-2	0.00125	0.00137	0.000400	0.00200	
А	Cadmium		7440-43-9	0.000500	0.000494	0.000200	0.00200	
А	Lead		7439-92-1	0.00125	0.00142	0.000600	0.00200	
А	Selenium		7782-49-2	0.00250	0.00245	0.00110	0.00200	

Selenium

А

0.00200

0.00110

0.00245

0.00250

Work	Order:	HS23090922				ME	THOD DETEC	TION /
Instru	umentID:	ICPMS06				R	EPORTING LI	MITS
Test	Code:	ICP_TW						
Test	Number:	SW6020A		Matrixe	Δαμορικ	11	te mal	
Test	Name:	ICP-MS Metals by SW6020A		watrix:	Aqueous	Un	Units: mg/L	
Туре	Analyte		CAS	DCS	Spike	DCS	MDL	PQL
А	Arsenic		7440-38-2	0.	.00125	0.00137	0.000400	0.00200
А	Cadmium		7440-43-9	0.0	00500	0.000494	0.000200	0.00200
А	Lead		7439-92-1	0.	.00125	0.00142	0.000600	0.00200

7782-49-2

HS23090922

WorkOrder:

#### QC BATCH REPORT

Batch ID:	200631 ( 0 )	Ins	trument:	ICPMS06	M	ethod: I	CP-MS MET	ALS BY SW6	020A
MBLK	Sample ID:	MBLK-200631		Units:	mg/L	Ana	alysis Date:	20-Sep-2023	00:31
Client ID:		F	Run ID: ICPN	/IS06_446741	SeqNo: 7	553220	PrepDate:	19-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		U	0.00200						
Cadmium		U	0.00200						
Lead		U	0.00200						
Selenium		U	0.00200						
LCS	Sample ID:	LCS-200631		Units:	mg/L	Ana	alysis Date:	20-Sep-2023	00:33
Client ID:		F	Run ID: ICPN	/IS06_446741	SeqNo: 7	553221	PrepDate:	19-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04837	0.00200	0.05	0	96.7	80 - 120		
Cadmium		0.04906	0.00200	0.05	0	98.1	80 - 120		
Lead		0.04588	0.00200	0.05	0	91.8	80 - 120		
Selenium		0.04843	0.00200	0.05	0	96.9	80 - 120		
мѕ	Sample ID:	HS23090922-01M	IS	Units:	mg/L	Ana	alysis Date:	20-Sep-2023	00:39
Client ID:	MW-45	F	Run ID: ICPN	/IS06_446741	SeqNo: 7	553224	PrepDate:	19-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04896	0.00200	0.05	0.000312	97.3	80 - 120		
Cadmium		0.04804	0.00200	0.05	0.000001	96.1	80 - 120		
Lead		0.04489	0.00200	0.05	0.000056	89.7	80 - 120		
Selenium		0.05003	0.00200	0.05	0.001708	96.6	80 - 120		
MSD	Sample ID:	HS23090922-01M	ISD	Units:	mg/L	Ana	alysis Date:	20-Sep-2023	00:41
Client ID:	MW-45	F	Run ID: ICPN	/IS06_446741	SeqNo: 7	553225	PrepDate:	19-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04916	0.00200	0.05	0.000312	97.7	80 - 120	0.04896	0.406 20
Cadmium		0.0484	0.00200	0.05	0.000001	96.8	80 - 120	0.04804	0.742 20
Lead		0.04593	0.00200	0.05	0.000056	91.7	80 - 120	0.04489	2.28 20
Selenium		0.04961	0.00200	0.05	0.001708	95.8	80 - 120	0.05003	0.837 20

# ALS Houston, US

# Client:WSP GolderProject:Frisco CDC GW North CAMU GW QtyWorkOrder:HS23090922

OC BATCH REPOR	т

Batch ID:	200631 ( 0 )	Instru	ment:	ICPMS06	M	ethod: I	CP-MS MET	ALS BY SW6	020A	
PDS Client ID:	Sample ID: <b>MW-45</b>	HS23090922-01PDS Run	ID: ICPI	Units: <b>WS06 446741</b>	mg/L SeqNo: 7	Ana <b>7553226</b>	Ilysis Date: PrepDate:	20-Sep-2023 19-Sep-2023	00:43 Di	F: <b>1</b>
Analyte		Result	MQL	– SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		0.09335	0.00200	0.1	0.000312	93.0	75 - 125			
Cadmium		0.09392	0.00200	0.1	0.000001	93.9	75 - 125			
Lead		0.08905	0.00200	0.1	0.000056	89.0	75 - 125			
Selenium		0.09589	0.00200	0.1	0.001708	94.2	75 - 125			
SD	Sample ID:	HS23090922-01SD		Units:	mg/L	Ana	lysis Date:	20-Sep-2023	00:37	
Client ID:	MW-45	Run	ID: ICPI	MS06_446741	SeqNo: 7	553223	PrepDate:	19-Sep-2023	DI	F: <b>5</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Arsenic										0 10
		U	0.0100					0.000312		0 10
Cadmium		U U	0.0100					0.000312		0 10
Cadmium Lead		U U U	0.0100 0.0100 0.0100					0.000312 0.000001 0.000056		0 10 0 10 0 10
Cadmium Lead Selenium		U U U U	0.0100 0.0100 0.0100 0.0100					0.000312 0.000001 0.000056 0.001708		0 10 0 10 0 10 0 10

QC BATCH REPORT

# Client:WSP GolderProject:Frisco CDC GW North CAMU GW QtyWorkOrder:HS23090922

Batch ID:	200661 ( 0 )	Instru	ment:	ICPMS06	Me	ethod:	DISSOLVED (DISSOLVED	METALS BY ))	SW6020A
MBLK	Sample ID:	MBLKF1-200661		Units:	mg/L	Ar	alysis Date:	20-Sep-2023	i 17:35
Client ID:		Run	ID: ICPN	IS06_446863	SeqNo: 7	555781	PrepDate:	20-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		U	0.00200						
Cadmium		U	0.00200						
Lead		U	0.00200						
Selenium		U	0.00200						
MBLK	Sample ID:	MBLK-200661		Units:	mg/L	Ar	alysis Date:	20-Sep-2023	3 17:11
Client ID:		Run	ID: ICPN	IS06_446863	SeqNo: 7	555780	PrepDate:	20-Sep-2023	DF: <b>1</b>
					SPK Ref		Control	RPD Ref	RPD
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD Limit Qual
Arsenic		U	0.00200						
Cadmium		U	0.00200						
Lead		U	0.00200						
Selenium		U	0.00200						
LCS	Sample ID:	LCS-200661		Units:	mg/L	Ar	alysis Date:	20-Sep-2023	3 17:37
Client ID:		Run	ID: ICPN	IS06_446863	SeqNo: 7	555782	PrepDate:	20-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04804	0.00200	0.05	0	96.1	80 - 120		
Cadmium		0.0486	0.00200	0.05	0	97.2	80 - 120		
Lead		0.04562	0.00200	0.05	0	91.2	80 - 120		
Selenium		0.04888	0.00200	0.05	0	97.8	80 - 120		
MS	Sample ID:	HS23090922-01MS		Units:	mg/L	Ar	alysis Date:	20-Sep-2023	20:14
Client ID:	MW-45	Run	ID: ICPN	IS06_446863	SeqNo: 7	556213	PrepDate:	20-Sep-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.05002	0.00200	0.05	0.000331	99.4	75 - 125		
Cadmium		0.04929	0.00200	0.05	0.000014	98.5	75 - 125		
Lead		0.04836	0.00200	0.05	0.000011	96.7	75 - 125		
Selenium		0.05146	0.00200	0.05	0.001518	99.9	75 - 125		

# ALS Houston, US

#### Date: 21-Sep-23

Client:	WSP Golder
Project:	Frisco CDC GW North CAMU GW Qty
WorkOrder:	HS23090922

Batch ID:	200661 ( 0 )	Instru	ment:	ICPMS06	Μ	lethod:	DISSOLVED (DISSOLVED	METALS BY ))	SW602	20A
MSD	Sample ID:	HS23090922-01MSE	)	Units:	mg/L	An	alysis Date:	20-Sep-2023	20:16	
Client ID:	MW-45	Rur	ID: ICPI	<b>MS06 446863</b>	SeqNo:	7556214	PrepDate:	20-Sep-2023	DI	=: 1
				-	SPK Ref		Control	RPD Ref		RPD
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit Qual
Arsenic		0.0487	0.00200	0.05	0.000331	96.7	75 - 125	0.05002	2.	68 20
Cadmium		0.04843	0.00200	0.05	0.000014	96.8	75 - 125	0.04929	1.	75 20
Lead		0.04648	0.00200	0.05	0.000011	92.9	75 - 125	0.04836	3.9	96 20
Selenium		0.05064	0.00200	0.05	0.001518	98.3	75 - 125	0.05146	1	.6 20
PDS	Sample ID:	HS23090922-01PDS		Units:	mg/L	An	alysis Date:	20-Sep-2023	20:18	
Client ID:	MW-45	Rur	ID: ICPI	MS06_446863	SeqNo:	7556215	PrepDate:	20-Sep-2023	DI	=:1
				_	SPK Ref		Control	RPD Ref		RPD
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit Qual
Arsenic		0.1007	0.00200	0.1	0.000331	100	75 - 125			
Cadmium		0.09936	0.00200	0.1	0.000014	99.3	75 - 125			
Lead		0.09679	0.00200	0.1	0.000011	96.8	75 - 125			
Selenium		0.1003	0.00200	0.1	0.001518	98.8	75 - 125			
SD	Sample ID:	HS23090922-01SD		Units:	ma/l	An	alvsis Date <sup>.</sup>	20-Sen-2023	20.12	
Client ID	MW-45	Rur		MS06 446863	SeqNo:	7556212	PrenDate:	20-Sep-2023		- 5
onone ib.		i tui			SPK Ref		Control	RPD Ref		.• %D
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%D	Limit Qual
Arsenic		U	0.0100					0.000331		0 10
Cadmium		U	0.0100					0.000014		0 10
Lead		U	0.0100					0.000011		0 10
Selenium		U	0.0100					0.001518		0 10
The following	g samples were analyz	ed in this batch: HS2309 HS2309 HS2309	00922-01 00922-05 00922-09	HS2309092 HS2309092 HS2309092	22-02 22-06 22-10	HS230909 HS230909 HS230909	922-03 922-07 922-11	HS23090922- HS23090922- HS23090922-	-04 -08 -12	

#### QC BATCH REPORT

# ALS Houston, US

Client:	WSP Golder	QUALIFIERS.
Project:	Frisco CDC GW North CAMU GW Qty	ACRONYMS, UNITS
WorkOrder:	HS23090922	
Qualifier	Description	
*	Value exceeds Regulatory Limit	
а	Not accredited	
В	Analyte detected in the associated Method Blank above the Reporting Limit	
E	Value above quantitation range	
Н	Analyzed outside of Holding Time	
J	Analyte detected below quantitation limit	
Μ	Manually integrated, see raw data for justification	
n	Not offered for accreditation	
ND	Not Detected at the Reporting Limit	
0	Sample amount is > 4 times amount spiked	
Р	Dual Column results percent difference > 40%	
R	RPD above laboratory control limit	
S	Spike Recovery outside laboratory control limits	
U	Analyzed but not detected above the MDL/SDL	
Acronym	Description	
DCS	Detectability Check Study	
DUP	Method Duplicate	
LCS	Laboratory Control Sample	
LCSD	Laboratory Control Sample Duplicate	
MBLK	Method Blank	
MDL	Method Detection Limit	
MQL	Method Quantitation Limit	
MS	Matrix Spike	
MSD	Matrix Spike Duplicate	
PDS	Post Digestion Spike	
PQL	Practical Quantitaion Limit	
SD	Serial Dilution	
SDL	Sample Detection Limit	
TRRP	Texas Risk Reduction Program	

# CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

					Sample Receipt Checklist
Work Order ID: Client Name:	HS23090922 Golder St Louis		Date/ Recei	Time Received: ved by:	<u>14-Sep-2023 10:00</u> <u>Malcolm Burleson</u>
Completed By	/S/ Corey Grandits	16-Sep-2023 11:44	Reviewed by: /S/	Tyler Monroe	19-Sep-2023 14:52
	eSignature	Date/Time		eSignature	Date/Time
Matrices:	W		Carrier name:	<u>FedEx</u>	
Shipping contai Custody seals i Custody seals i VOA/TX1005/T Chain of custod Chain of custod Samplers name Chain of custod Samples in prop Sample contain Sufficient samp All samples rec Container/Temp	ner/cooler in good condition? ntact on shipping container/coo ntact on sample bottles? X1006 Solids in hermetically se y present? y signed when relinquished an present on COC? y agrees with sample labels? per container/bottle? ers intact? le volume for indicated test? eived within holding time? o Blank temperature in complia	iler? valed vials? d received? nce?	Yes V Yes V	No	Not Present Not Present Not Present 2 Page(s) COC IDs:298425 , 298424
Temperature(s)	/Thermometer(s):		3.1uc/3.0c		IR31
Cooler(s)/Kit(s)	nlo(c) cont to storage:		51025		
Water - VOA via Water - pH acco pH adjusted? pH adjusted by: Login Notes:	als have zero headspace? eptable upon receipt?		Yes Yes	No  No No Vo	No VOA vials submitted  N/A N/A
Client Contacte	d:	Date Contacted:		Person Cor	ntacted:
Contacted By:		Regarding:			
Comments: Corrective Actio	on:				



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+1 425 356 2600

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Chain	of	Custody	Form
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of

COC ID: 298425

Page

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Salt Lake City, UT

+1 801 266 7700

South Charleston, WV +1 304 356 3168

York, PA +1 717 505 5280

, marana ana a	*****					AL	S Projec	t Manager:					ALS	Work	Order	#:			
		Customer Inf	ormation		Pro	ject Informatio	on				Par	amet	er/Me	thod I	Reque	st for	Analy	sis	·
Pu	Irchase Order	GL2040906	3205	Project N	lame Fi	risco CDC Norti	h CAMU	GW Qty	A	A ICP_TW (6020A - Total As, Cd, Pb, Se (QTY)) [120mlPHNO3								-INO3	
	Work Order			Project Nu	mber G	L2040906205			В (	B (6020A - DISSolved As, Cd, Pb, Se (QTY))-FidFltr [120ml								nl	
Co	mpany Name	WSP Golde	<b>r</b>	Bill To Com	pany 🛛 🕅	/SP Golder			C I	C MS/MSD [1x120ml P HNO3 (T), 1x120ml P HNO3 (D)]									
Se	end Report To	Rahel Pom	merenke	Invoice	Attn A	n Accounts Payable WSP			D	D									
701 Emerson Road Suite 250 Address			Adc	Iress 7(	701 Emerson Road Suite 250			E HS23090922											
C	ity/State/Zip	Creve Coel	ir, MO 63141	City/State	e/Zip C	Zip Creve Coeur MO 63141						Fr	isco (		GW No	orth C	AMU		
Phone (314) 394-6125				PI	none (3	14) 984-8800			Н										
	Fax				Fax				I										
e-l	Mail Address	Rahel_Pom	merenke@golder.com	e-Mail Add	Iress U	SENVAccounts	payable	2wsp.com	J										
No.		Sample Des	ription	Date	Time	Matrix	Pres.	# Bottles	A	В	C	D	E	F	G	Н		J	Hold
1	MW-45			9-11-23	0955	Groundwa	2,8	4	X	X	Х								
2	PMW-19R	:		9-11-23	1030	Groundwa	2,8	2	X	Х									
3	LMW-8			9-11-23	1110	Groundwa	2,8	2	X	Х									
4	LMW-17			9-11-23	1205	Groundwa	2,8	2	X	Х									
5	LMW-5			9-11-23	1245	Groundwa	2,8	2	X	X									
6	LMW-21			9-11-23	1325	Groundwa	2,8	2	X	Х									
7	PMW-20R			9-11-23	1405	Groundwa	2,8	2	X	Х									
8	MW-41	1		9-11-23	1445	Groundwa	2,8	2	X	X									
9	MW-47			9-11-23	1530	Groundwa	2,8	2	X	X									
10	LMW-9R			9-12-23	0845	Groundwa	2,8	2	X	X									
Sam	pler(s) Please P	rint & Sign	Went	Shipmer FED	ht Method	Requir	r <mark>ed Turnar</mark> TD 10 Wk C	ound Time: (* *y5 X	Check E	<b>lox)</b> /5		er K Days	Ē	] 24	Re	esults I	Due Dal	.e:	
Relin	quished by	$\sim$	() Pate 3-23	Time: 1600	Received by:	1		Codd in W	Notes:	Fris	xco CD	C Noi	th CA	MU G	Ŵ		*****		
Relin	quished by:		Date:	Time:	Received by	(Laboratory):	091	42023	Cool	er ID	Coole	r Temp.	QCI	Package	: (Checl	( One B	ox Belov	996109600000000000000000000000000000000	****
Logged by (Deforatory): Date: T			Time: "	Checked by (	Laboratory):)			310	IV-DI         Level II Std QC         X         TERP Check ist           St023         St1642         Level III Stc QC/RawDate         X         TERP Check ist										
Preservative Key: 1-HCI 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-NaC				10H 5-Na <sub>2</sub> S <sub>2</sub> O	3 6-NaHS	SO₄ 7-Other	8-4°C	9-5035			-0.	<u>۲ د.</u>		Leve	II IV SVV84	BYCLP	50	beaut	

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+1 717 944 5541

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York, PA +1 717 505 5280

			COC ID: 298424												
				AL	S Project	Manager	:			ALS	S Work	Order #:			
Durchasa Ordan			Pr	oject Informati	on		- States		Param	neter/M	ethod	Request for	or Anal	ysis	
Purchase Order	GL2040906205	Project N	ame	Frisco CDC Nor	th CAMU	GW Qty	A	A ICP_TW (6020A - Total As, Cd, Pb, Se (QTY)) [120mIPHNO3						03	
Work Order		Project Nun	nber	GL2040906205			В	(6020/	A - DISSO	ved As,	Cd, Pt	, Se (QTY	)-FldFl	tr [120ml	un esta de la composición de la composi
Company Name WSP Golder Bill To Company			bany	WSP Golder			C	MS/MS	SD11x120	mi P Hi		) 1x120ml	PHNO	3 (1)1	
Send Report To Rahel Pommerenke Invoice Attn			Attn	Accounts Payab	le WSP		D					<u>,</u>		w 1 w 11	
Address	Addı	ress	701 Emerson Road Suite 250				HS23090922 WSP Golder							v) y) Boar was in the board and	
City/State/Zip	City/State	/Zip				G			Frisco	CDC	GW North	CAML	J		
Phone (314) 394-6125		Ph	one	121/1 02/ 2200			H								
Fax			Fax	(01-1) 00-0000			1								
e-Mail Address	Rahel Pommerenke@golder.com	0 e-Mail Addr	mes	USENVAccount	chavahle@	bwen com						89118 19111 88			81
No.	Sample Description	Date	Time	Matrix	Proc	# Bottlag		0	0 0	- Province	I timer en ant			-	
1 LMW-22		9-12-23	192	n Groundwa	2,8	2	X	X		See.		u n	34 59 125	4	mola
2 DUP-01		9~11-23	10UG	Groundwa	a 2.8	2	X	X							
3		111-22	1670	-											
4				······											
<b>F</b>					:									-	
											<u> </u>				
0 															
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8					:										
9															
10	0														
Sampler(s) Please Pri	HTDN Hung	Shipment FED	t Method ミメ	Requir	<b>red Turnaro</b> STD 10 WK DX	und Time: ((	Style Da	lox) NS	Cther 2 Wk Da	γs	24	-lou	Due Da	ite:	
Relinquister	2 () 9-13-23	1,00	neceived by	·:			Notes:	Fris		Vorth C/	AMU G	w			
nemiquisher(by:		ime:	neceived by	Laboratory).	0?	102020	Cool	er ID	Cooler Ter	np. QC	Package	: (Check One	Box Belo	·vv)	
.ogged by (Leboratory):		Time:	Checked by	(Laboratory):			510	25	3.10	2	Leve	el II Stá CC El III Sta OC/Raw	Date	TRRP C	heckist evellV
-reservative Key:	1-HOI 2-HINO3 3-H2SO4 4-N	IaOH 5-Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	6-NaH	SO <sub>4</sub> 7-Other	8-4°C	9-5035					name Othe	n iv Svasa svCLF			

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December 08, 2023

William Wedge WSP Golder 701 Emerson Road Suite 250 Creve Coeur, MO 63141

Work Order: HS23120154

Laboratory Results for: Frisco CDC GW North CAMU

Dear William Wedge,

ALS Environmental received 12 sample(s) on Dec 01, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Her Ma

Generated By: DAYNA.FISHER Tyler Monroe

#### **ALS Houston, US**

Client:	WSP Golder	
Project:	Frisco CDC GW North CAMU	IRRP Laboratory Data Package Cover Page
WorkOrder:	HS23120154	i dekage oover i age

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
    - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,b) Calculated %R for each analyte, andc)The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

#### **ALS Houston, US**

Client:	WSP Golder	
Project:	Frisco CDC GW North CAMU	I RRP Laboratory Data Package Cover Page
WorkOrder:	HS23120154	i ackage oover i age

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [] TCEQ or [] \_\_\_\_\_\_ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Her Ma

Tyler Monroe

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Laboratory Review Checklist: Reportable Data												
Laboratory Name:     ALS Laboratory Group     LRC Date:     12/08/2023       Project Name:     Frisco CDC GW North CAMU     Laboratory Job Number:     HS23120154												
Proje	ct Nam	e: Frisco CDC GW North CAMU	Laboratory Job Nun	nber: I	HS2312(	)154						
Revie	wer N	ame: Tyler Monroe	Pren Batch Number(s)	· 2044	39 2044	15						
#1	$A^2$	Description		Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>				
R1	OI	Chain-of-custody (C-O-C)										
		Did samples meet the laboratory's standard conditions of sam	ple acceptability									
		upon receipt?		Х								
		Were all departures from standard conditions described in an	exception report?	Х								
R2	OI	Sample and quality control (QC) identification										
		Are all field sample ID numbers cross-referenced to the labor	atory ID numbers?	X								
D2	OI	Are all laboratory ID numbers cross-referenced to the corresp	conding QC data?	X								
КЭ	01	Vers all samples prepared and analyzed within holding times	.9	v								
		Other than those results $< MOL$ were all other raw values bra	ber than those results $< MOL$ were all other raw values bracketed by									
		calibration standards?	deneted by	Х								
		Were calculations checked by a peer or supervisor?		X								
		Were all analyte identifications checked by a peer or supervis	sor?	Х								
		Were sample detection limits reported for all analytes not detected	ected?	Х								
		Were all results for soil and sediment samples reported on a d	lry weight basis?			Х						
		Were % moisture (or solids) reported for all soil and sedimen	t samples?			X	-	<u> </u>				
		Were bulk soils/solids samples for volatile analysis extracted	with methanol per			v						
		5 W-846 Method 5035?						-				
<b>P</b> 4	0	Surrogate recovery data				Λ						
114	0	Were surrogates added prior to extraction?				X						
		Were surrogate percent recoveries in all samples within the la	aboratory OC									
		limits?	, (			Х						
R5	OI	Test reports/summary forms for blank samples										
		Were appropriate type(s) of blanks analyzed?		Х				_				
		Were blanks analyzed at the appropriate frequency?		Х								
		Were method blanks taken through the entire analytical proce	ess, including	v								
		Were blank concentrations < MOL ?										
R6	OI	Laboratory control samples (LCS):		Λ								
	01	Were all COCs included in the LCS?		Х								
		Was each LCS taken through the entire analytical procedure,	including prep and									
		cleanup steps?		Х								
		Were LCSs analyzed at the required frequency?		Х								
		Were LCS (and LCSD, if applicable) %Rs within the laborate	ory QC limits?	Х								
		Does the detectability data document the laboratory's capability $COC_{2}$ at the MDL used to calculate the SDL $c^{2}$	ity to detect the	v								
		Was the LCSD RPD within OC limits?										
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data	a	Λ								
	01	Were the project/method specified analytes included in the M	IS and MSD?	Х								
		Were MS/MSD analyzed at the appropriate frequency?		Х								
		Were MS (and MSD, if applicable) %Rs within the laboratory	y QC limits?	Х								
		Were MS/MSD RPDs within laboratory QC limits?		Х								
<b>R8</b>	OI	Analytical duplicate data										
		Were appropriate analytical duplicates analyzed for each matu	nx?			X	-					
		Were RPDs or relative standard deviations within the laborate	ncy /									
<b>R</b> 9	OI	Method quantitation limits (MOLs).	ory QC minus?			Λ						
IV.	01	Are the MOLs for each method analyte included in the labora	atory data package?	X								
		Do the MQLs correspond to the concentration of the lowest n	on-zero calibration									
		standard?		X								
		Are unadjusted MQLs and DCSs included in the laboratory d	ata package?	Χ								
R10	OI	Other problems/anomalies										
		Are all known problems/anomalies/special conditions noted in	n this LRC and	17								
		EK ! Ware all necessary corrective actions performed for the report	ted data?	X								
		Were an necessary concentre actions performed for the report Was applicable and available technology used to lower the SI	DL and minimize	Λ								
		the matrix interference affects on the sample results?		Х								
		Is the laboratory NELAC-accredited under the Texas Laborat	tory Program for				1	1				
		the analytes, matrices and methods associated with this labora	atory data package?	Х								
1	1					1	1	1				

		Laboratory Review Checklist	t: Supporting Data	a				
Labo	ratory 2	Name: ALS Laboratory Group LR	RC Date: 12/08/202	3				
Proje	ct Nan	ne: Frisco CDC GW North CAMU	aboratory Job Numb	ber: HS	5231201	54		
Revie	ewer N	ame: Tyler Monroe Pre	ep Batch Number(s):	204439	9, 204445			
#1	A <sup>2</sup>	Description	• • • • •	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
<b>S1</b>	OI	Initial calibration (ICAL)						
		Were response factors and/or relative response factors for each	analyte within QC					
		limits?		Х				
		Were percent RSDs or correlation coefficient criteria met?		Х				
		Was the number of standards recommended in the method used	l for all analytes?	Х				
		Were all points generated between the lowest and highest stand	lard used to					
		calculate the curve?		X			<u> </u>	
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an appropri-	iate second source					
		standard?		X				
63	01	Initial and continuing calibration verification (ICCV and C	(CV) and					
52	OI	Continuing calibration blank (CCB)		V				
		Was the CCV analyzed at the method-required frequency?	animad OC limita?	A V			<u> </u>	
		We the ICAL survey verified for each analyte within the method-red	equired QC minus?				+	
		Was the absolute value of the analyte concentration in the inorg	rania CCP < MDL 2	Λ	v		+	1
62	0	Was the absolute value of the analyte concentration in the morg			Λ			
55	0	Was the appropriate compound for the method used for tuning?	)	v				
		Were ion abundance data within the method required OC limits	ະ ຄາ	A X				-
<b>S</b> 4	0	Internal standards (IS).	3:	Λ				
54	U	Were IS area counts and retention times within the method-requ	uired OC limits?	x				
		<b>Raw data</b> (NELAC section 1 appendix A glossary and section	15 12 or ISO/IEC	Λ				
<b>S</b> 5	OI	17025 section						
	01	Were the raw data (for example, chromatograms, spectral data)	reviewed by an					
		analyst?		Х				
		Were data associated with manual integrations flagged on the ra	aw data?	Х				_
<b>S6</b>	0	Dual column confirmation						
		Did dual column confirmation results meet the method-required	d QC?			Х		
<b>S7</b>	0	Tentatively identified compounds (TICs):						
		If TICs were requested, were the mass spectra and TIC data sub	bject to appropriate					
		checks?				Х		
<b>S8</b>	Ι	Interference Check Sample (ICS) results:						
		Were percent recoveries within method QC limits?		Х				
<b>S9</b>	Ι	Serial dilutions, post digestion spikes, and method of standa	ard additions					
		Were percent differences, recoveries, and the linearity within the	he QC limits					
G10	01	specified in the method?		X				
<b>S10</b>	OI	Method detection limit (MDL) studies		N			4	
		Was a MDL study performed for each reported analyte?		X				
611	01	Is the MDL either adjusted or supported by the analysis of DCS	SS?	X				
511	01	Was the laboratory's performance accentable on the applicable :	proficionau tasta or					
		evaluation studies?	pronciency tests of	x				
<b>S12</b>	ОГ	Standards documentation		Λ				
012	01	Are all standards used in the analyses NIST-traceable or obtain	ed from other					
		appropriate sources?		х				
S13	OI	Compound/analyte identification procedures						
~		Are the procedures for compound/analyte identification docume	ented?	Х				
S14	OI	Demonstration of analyst competency (DOC)						
		Was DOC conducted consistent with NELAC Chapter 5C or IS	SO/IEC 4?	Х				
		Is documentation of the analyst's competency up-to-date and or	n file?	X				
		Verification/validation documentation for methods (NELAC	C Chap 5 or					
S15	OI	ISO/IEC 17025 Section 5)						
		Are all the methods used to generate the data documented, verif	fied, and validated,					
		where applicable?		X			<u> </u>	<u> </u>
S16	OI	Laboratory standard operating procedures (SOPs):						
		Are laboratory SOPs current and on file for each method perfor	rmed?	X		<u> </u>		<u> </u>
Items id	entified l	by the letter "K" must be included in the laboratory data package submitted in an available upon request for the appropriate retention particular to the submitted in the submi	n the TRRP-required rep	ort(s). It	ems identifi	ed by the le	atter "S" sho	uld be
O = Orc	anic Ana	alyses; I = Inorganic Analyses (and general chemistry, when applicable);						

NA = Not Applicable; NR = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

	Laboratory Review Checklist: Exception Reports										
Laboratory Name: ALS Laboratory Group   LRC Date: 12/08/2023											
Projec	t Name: Frisco CDC GW North CAMU	Laboratory Job Number: HS23120154									
Review	wer Name: Tyler Monroe	Prep Batch Number(s): 204439, 204445									
ER# <sup>5</sup>	ER# <sup>5</sup> Description										
1	See Run Log and CCB Exception Reports										
Items ide retained O = Orga NA = Not NR = Not	Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed;										
R# = Exc	ception Report identification number (an Exception Report should be complete	ed for an item if "NR" or "No" is checked).									

#### FORM 13 - ANALYSIS RUN LOG

# Run ID:ICPMS07\_453459 Instrument:ICPMS07 Method:SW6020A

Client: WSP Golder Project: Frisco CDC GW North CAMU WorkOrder: HS23120154

Start Date: 07-Dec-2023

End Date: 08-Dec-2023

Sample No.	D/F	Time	FileID	Analytes
ICV	1	07-Dec-2023 10:37	025_ICV.d	AS CD PB SE
LLICV5	1	07-Dec-2023 10:39	026LCV5.d	AS CD PB SE
LLICV2	1	07-Dec-2023 10:42	027LCV2.d	AS CD PB SE
ICB	1	07-Dec-2023 10:44	028_ICB.d	AS CD PB SE
ICSA	1	07-Dec-2023 10:46	029ICSA.d	AS CD PB SE
ICSAB	1	07-Dec-2023 10:49	030ICSB.d	AS CD PB SE
CCV 1	1	07-Dec-2023 10:57	033 CCV.d	AS CD PB SE
CCB 1	1	07-Dec-2023 10:59	034 CCB.d	AS CD PB SE
CCV 2	1	07-Dec-2023 11:03	035 CCV.d	AS CD PB SE
CCB 2	1	07-Dec-2023 11:05	036_CCB.d	AS CD PB SE
CCV 3	1	07-Dec-2023 11:31	047 CCV.d	AS CD PB SE
CCB 3	1	07-Dec-2023 11:33	048 CCB.d	AS CD PB SE
CCV 4	1	07-Dec-2023 11:59	059_CCV.d	AS CD PB SE
CCB 4	1	07-Dec-2023 12:02	060 CCB.d	AS CD PB SE
CCV 5	1	07-Dec-2023 12:28	071 CCV.d	AS CD PB SE
CCB 5	1	07-Dec-2023 12:31	072 CCB.d	AS CD PB SE
CCB 6	1	07-Dec-2023 12:34	073 CCB.d	AS CD PB SE
CCV 6	1	07-Dec-2023 13:00	084_CCV.d	AS CD PB SE
CCB 7	1	07-Dec-2023 13:03	 085 CCB.d	AS CD PB SE
CCV 7	1	07-Dec-2023 13:35	 096_CCV.d	AS CD PB SE
CCB 8	1	07-Dec-2023 13:38	 097 CCB.d	AS CD PB SE
CCV 8	1	07-Dec-2023 14:03	108 CCV.d	AS CD PB SE
CCB 9	1	07-Dec-2023 14:06	109 CCB.d	AS CD PB SE
CCB 10	1	07-Dec-2023 14:08	 110 CCB.d	AS CD PB SE
CCV 9	1	07-Dec-2023 14:34		AS CD PB SE
CCB 11	1	07-Dec-2023 14:36	122 CCB.d	AS CD PB SE
CCV 10	1	07-Dec-2023 15:02	133 CCV.d	AS CD PB SE
CCB 12	1	07-Dec-2023 15:04	 134 CCB.d	AS CD PB SE
CCB 13	1	07-Dec-2023 15:20	135 CCB.d	AS CD PB SE
CCV 11	1	07-Dec-2023 15:23	136 CCV.d	AS CD PB SE
CCV 12	1	07-Dec-2023 15:48		AS CD PB SE
CCB 14	1	07-Dec-2023 15:51	148 CCB.d	AS CD PB SE
CCV 13	1	07-Dec-2023 16:23	160 CCV.d	AS CD PB SE
CCB 15	1	07-Dec-2023 16:25	161 CCB.d	AS CD PB SE
CCB 16	1	07-Dec-2023 16:29	162 CCB.d	AS CD PB SE
CCV 14	1	07-Dec-2023 16:31	163_CCV.d	AS CD PB SE
CCV 15	1	07-Dec-2023 16:57	174_CCV.d	AS CD PB SE
CCB 17	1	07-Dec-2023 16:59	175_CCB.d	AS CD PB SE
CCB 18	1	07-Dec-2023 17:01	176_CCB.d	AS CD PB SE
CCV 16	1	07-Dec-2023 17:04	177_CCV.d	AS CD PB SE
CCV 17	1	07-Dec-2023 17:29	188_CCV.d	AS CD PB SE
CCV 18	1	07-Dec-2023 17:29	188_CCV.d	AS CD PB SE
CCB 19	1	07-Dec-2023 17:32	189_CCB.d	AS CD PB SE
CCB 20	1	07-Dec-2023 17:32	189_CCB.d	AS CD PB SE
CCV 19	1	07-Dec-2023 17:58	200_CCV.d	AS CD PB SE
CCB 21	1	07-Dec-2023 18:00	201_CCB.d	AS CD PB SE
CCV 20	1	07-Dec-2023 18:02	202_CCV.d	AS CD PB SE
CCV 21	1	07-Dec-2023 18:05	203_CCV.d	AS CD PB SE
CCB 22	1	07-Dec-2023 18:07	204_CCB.d	AS CD PB SE
CCV 22	1	07-Dec-2023 18:33	215_CCV.d	AS CD PB SE
			-	

#### FORM 13 - ANALYSIS RUN LOG

# Run ID:ICPMS07\_453459 Instrument:ICPMS07 Method:SW6020A

Client:WSP GolderProject:Frisco CDC GW North CAMU

WorkOrder: HS23120154

Start Date: 07-Dec-2023

End Date: 08-Dec-2023

Sample No.	D/F	Time	FileID	Analytes
CCB 23	1	07-Dec-2023 18:35	216_CCB.d	AS CD PB SE
CCV 23	1	07-Dec-2023 19:02	227_CCV.d	AS CD PB SE
CCB 24	1	07-Dec-2023 19:04	228_CCB.d	AS CD PB SE
CCV 24	1	07-Dec-2023 19:18	232_CCV.d	AS CD PB SE
CCB 25	1	07-Dec-2023 19:20	233_CCB.d	AS CD PB SE
CCV 25	1	07-Dec-2023 19:46	244_CCV.d	AS CD PB SE
CCB 26	1	07-Dec-2023 19:48	245 CCB.d	AS CD PB SE
ICV	1	07-Dec-2023 20:56	267 ICV.d	AS CD PB SE
LLICV5	1	07-Dec-2023 20:58		AS CD PB SE
LLICV2	1	07-Dec-2023 21:01	269LCV2.d	AS CD PB SE
ICB	1	07-Dec-2023 21:03	270 ICB.d	AS CD PB SE
CCV 26	1	07-Dec-2023 21:08	272 CCV.d	AS CD PB SE
CCB 27	1	07-Dec-2023 21:10	273 CCB.d	AS CD PB SE
CCV 27	1	07-Dec-2023 21:31	282 CCV.d	AS CD PB SE
CCB 28	1	07-Dec-2023 21:33	 283 CCB.d	AS CD PB SE
CCV 28	1	07-Dec-2023 21:43		AS CD PB SE
CCB 29	1	07-Dec-2023 21:45		AS CD PB SE
MBLK-204439	1	07-Dec-2023 21:47	 289SMPL.d	AS CD PB SE
LCS-204439	1	07-Dec-2023 21:50	290SMPL.d	AS CD PB SE
MW-45	1	07-Dec-2023 21:52	291SMPL.d	AS CD PB SE
MW-45SD	5	07-Dec-2023 21:54	292SMPL.d	AS CD PB SE
MW-45MS	1	07-Dec-2023 21:57	293SMPL.d	AS CD PB SE
MW-45MSD	1	07-Dec-2023 21:59	294SMPL.d	AS CD PB SE
MW-45PDS	1	07-Dec-2023 22:02	295SMPL.d	AS CD PB SE
CCV 29	1	07-Dec-2023 22:04	296 CCV.d	AS CD PB SE
CCB 30	1	07-Dec-2023 22:06	297 CCB.d	AS CD PB SE
PMW-19R	1	07-Dec-2023 22:18	302SMPL.d	AS CD PB SE
LMW-8	1	07-Dec-2023 22:20	303SMPL.d	AS CD PB SE
LMW-17	1	07-Dec-2023 22:23	304SMPL.d	AS CD PB SE
LMW-5	1	07-Dec-2023 22:25	305SMPL.d	AS CD PB SE
LMW-21	1	07-Dec-2023 22:27	306SMPL.d	AS CD PB SE
DUP-01	1	07-Dec-2023 22:30	307SMPL.d	AS CD PB SE
CCV 30	1	07-Dec-2023 22:32	308 CCV.d	AS CD PB SE
CCB 31	1	07-Dec-2023 22:34	309 CCB.d	AS CD PB SE
PMW-20R	1	07-Dec-2023 22:37	310SMPL.d	AS CD PB SE
MW-41	1	07-Dec-2023 22:39	311SMPL.d	AS CD PB SE
MW-47	1	07-Dec-2023 22:41	312SMPL.d	AS CD PB SE
LMW-9R	1	07-Dec-2023 22:44	313SMPL.d	AS CD PB SE
LMW-22	1	07-Dec-2023 22:46	314SMPL.d	AS CD PB SE
CCV 31	1	07-Dec-2023 22:48	315 CCV.d	AS CD PB SE
CCB 32	1	07-Dec-2023 22:51	316 CCB.d	AS CD PB SE
CCB 33	1	07-Dec-2023 23:10		AS CD PB SE
CCV 32	1	07-Dec-2023 23:16	326 CCV.d	AS CD PB SE
ICSA	1	07-Dec-2023 23:23	329ICSA.d	AS CD PB SE
ICSAB	1	07-Dec-2023 23:25	330ICSB.d	AS CD PB SE
CCV 33	. 1	07-Dec-2023 23:32	333 CCV.d	AS CD PB SE
CCB 34	1	07-Dec-2023 23:35	334 CCB.d	AS CD PB SE
CCV 34	. 1	07-Dec-2023 23:51	341 CCV.d	AS CD PB SE
CCB 35	1	07-Dec-2023 23:53	342 CCB.d	AS CD PB SE
CCV 35	1	08-Dec-2023 00.14	351 CCV.d	AS CD PB SE
		22 200 2020 00.14		

## FORM 13 - ANALYSIS RUN LOG

Run ID:ICPMS07\_453459 Instrument:ICPMS07 Method:SW6020A

Client:WSP GolderProject:Frisco CDC GW North CAMUWorkOrder:HS23120154Start Date:07-Dec-2023End Date:08-Dec-2023

Sample No.	D/F	Time	FileID	Analytes	
CCB 36	1	08-Dec-2023 00:17	352_CCB.d	AS CD PB SE	
CCV 36	1	08-Dec-2023 00:43	363_CCV.d	AS CD PB SE	
CCB 37	1	08-Dec-2023 00:45	364_CCB.d	AS CD PB SE	
CCV 37	1	08-Dec-2023 01:11	375_CCV.d	AS CD PB SE	
CCB 38	1	08-Dec-2023 01:14	376_CCB.d	AS CD PB SE	
CCV 38	1	08-Dec-2023 01:16	377_CCV.d	AS CD PB SE	
CCB 39	1	08-Dec-2023 01:18	378_CCB.d	AS CD PB SE	
LLCCV5	1	08-Dec-2023 01:23	380LCV5.d	AS CD PB SE	
LLCCV2	1	08-Dec-2023 01:25	381LCV2.d	AS CD PB SE	
ICSA	1	08-Dec-2023 01:28	382ICSA.d	AS CD PB SE	
ICSAB	1	08-Dec-2023 01:30	383ICSB.d	AS CD PB SE	

Client: Project: WorkOrder	WSP Golder Frisco CDC GW : HS23120154	/ North CAMU		Run ID:ICPMS07_453459 Instrument:ICPMS07 Method:E200.8						
CCB 9	Date:	07-Dec-2023 14:06	Seq: 7713051		D/F:	1 Units: μg/L				
		Analvte	·	Result	MDL	Report Limit				
		Cadmium		0.115	0.077	2				
CCB 11	Date:	07-Dec-2023 14:36	Seq: 7713536		D/F:	1 Units: ug/L				
		Analyte	·	Result	MDL	Report Limit				
		Cadmium		0.288	0.2	2				
CCB 12	Date:	07-Dec-2023 15:04	Seq: 7713548		D/F:	1 Units: ug/L				
		Analvte	·	Result	MDL	Report Limit				
		Selenium		1.18	1.1	2				
CCB 13	Date:	07-Dec-2023 15:20	Seg: 7713549		D/F:	1 Units: ug/L				
		Analvte	·	Result	MDL	Report Limit				
		Selenium		1.7	1.1	2				
CCB 22	Date:	07-Dec-2023 18:07	Seq: 7714114		D/F:	1 Units: ug/L				
		Analyte	·	Result	MDL	Report Limit				
		Cadmium		0.25	0.2	2				
CCB 23	Date:	07-Dec-2023 18:35	Seq: 7714123		D/F:	1 Units: ug/L				
		Analvte	·	Result	MDL	Report Limit				
		Selenium		1.432	1.1	2				
CCB 31	Date:	07-Dec-2023 22:34	Seg: 7714422		D/F:	1 Units: ug/L				
		Analyte	·	Result	MDL	Report Limit				
		Selenium		1.285	1.1	2				
CCB 32	Date:	07-Dec-2023 22:51	Seq: 7714429		D/F:	1 Units: ug/L				
		Analyte	·	Result	MDL	Report Limit				
		Selenium		1.945	1.1	2				
CCB 33	Date:	07-Dec-2023 23:10	Seq: 7714437		D/F:	1 Units: ug/L				
		Analvte	·	Result	MDL	Report Limit				
		Cadmium		0.258	0.2	2				
		Selenium		1.796	1.1	2				
CCB 34	Date:	07-Dec-2023 23:35	Seq: 7714447		D/F:	1 Units: ug/L				
		Analyte		Result	MDL	Report Limit				
		Selenium		1.353	1.1	2				
CCB 36	Date:	08-Dec-2023 00:17	Seq: 7714803		D/F:	1 Units: ug/L				
		Analyte		Result	MDL	Report Limit				
		Selenium		1.11	1.1	2				
CCB 37	Date:	08-Dec-2023 00:45	Seq: 7714815		D/F:	1 Units: ug/L				
		Analyte	·	Result	MDL	Report Limit				
		Selenium		1.769	1.1	2				
CCB 39	Date:	08-Dec-2023 01:18	Seq: 7714789		D/F:	1 Units: ug/L				
		Analyte		Result	MDL	Report Limit				
		Selenium		1.32	1 1	2				
				1.02	1.1	-				

**CCB EXCEPTIONS REPORT** 

# ALS Houston, US

# Client:WSP GolderProject:Frisco CDC GW North CAMUWork Order:HS23120154

#### SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23120154-01	MW-45	Groundwater		29-Nov-2023 09:45	01-Dec-2023 10:45	
HS23120154-02	PMW-19R	Groundwater		29-Nov-2023 10:20	01-Dec-2023 10:45	
HS23120154-03	LMW-8	Groundwater		29-Nov-2023 11:05	01-Dec-2023 10:45	
HS23120154-04	LMW-17	Groundwater		29-Nov-2023 11:40	01-Dec-2023 10:45	
HS23120154-05	LMW-5	Groundwater		29-Nov-2023 12:15	01-Dec-2023 10:45	
HS23120154-06	LMW-21	Groundwater		29-Nov-2023 12:55	01-Dec-2023 10:45	
HS23120154-07	DUP-01	Groundwater		29-Nov-2023 12:15	01-Dec-2023 10:45	
HS23120154-08	PMW-20R	Groundwater		29-Nov-2023 13:45	01-Dec-2023 10:45	
HS23120154-09	MW-41	Groundwater		29-Nov-2023 14:30	01-Dec-2023 10:45	
HS23120154-10	MW-47	Groundwater		29-Nov-2023 15:20	01-Dec-2023 10:45	
HS23120154-11	LMW-9R	Groundwater		30-Nov-2023 08:15	01-Dec-2023 10:45	
HS23120154-12	LMW-22	Groundwater		30-Nov-2023 08:55	01-Dec-2023 10:45	

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	MW-45	Lab ID:HS23120154-01
Collection Date:	29-Nov-2023 09:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 21:52
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 21:52
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 21:52
Selenium	0.00199	J	0.00110	0.00200	mg/L	1	07-Dec-2023 21:52
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	A / 06-Dec-2023	Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 23:01
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:01
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:01
Selenium	0.00139	J	0.00110	0.00200	ma/L	1	07-Dec-2023 23:01

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	PMW-19R	Lab ID:HS23120154-02
Collection Date:	29-Nov-2023 10:20	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 06-Dec-2023	Analyst: MSC
Arsenic	0.000542	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:18
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:18
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:18
Selenium	0.00340		0.00110	0.00200	mg/L	1	07-Dec-2023 22:18
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 06-Dec-2023	Analyst: JC
Arsenic	0.000458	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:20
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:20
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:20
Selenium	0.00195	J	0.00110	0.00200	mg/L	1	07-Dec-2023 23:20

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-8	Lab ID:HS23120154-03
Collection Date:	29-Nov-2023 11:05	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	0.000531	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:20
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:20
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:20
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 22:20
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	A / 06-Dec-2023	Analyst: JC
Arsenic	0.000572	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:22
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:22
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:22
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 23:22

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-17	Lab ID:HS23120154-04
Collection Date:	29-Nov-2023 11:40	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 06-Dec-2023	Analyst: MSC
Arsenic	0.000711	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:23
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:23
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:23
Selenium	0.00233		0.00110	0.00200	mg/L	1	07-Dec-2023 22:23
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 06-Dec-2023	Analyst: JC
Arsenic	0.000662	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:24
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:24
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:24
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 23:24

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-5	Lab ID:HS23120154-05
Collection Date:	29-Nov-2023 12:15	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 22:25
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:25
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:25
Selenium	0.00229		0.00110	0.00200	mg/L	1	07-Dec-2023 22:25
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 06-Dec-2023	Analyst: JC
Arsenic	0.000487	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:26
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:26
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:26
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 23:26

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-21	Lab ID:HS23120154-06
Collection Date:	29-Nov-2023 12:55	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	0.000499	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:27
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:27
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:27
Selenium	0.00597		0.00110	0.00200	mg/L	1	07-Dec-2023 22:27
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	A / 06-Dec-2023	Analyst: JC
Arsenic	0.000545	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:28
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:28
Lead	0.000673	J	0.000600	0.00200	mg/L	1	07-Dec-2023 23:28
Selenium	0.00460		0.00110	0.00200	mg/L	1	07-Dec-2023 23:28

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	DUP-01	Lab ID:HS23120154-07
Collection Date:	29-Nov-2023 12:15	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:S	SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 22:30
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:30
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:30
Selenium	0.00224		0.00110	0.00200	mg/L	1	07-Dec-2023 22:30
DISSOLVED METALS BY SW6020A	Metho	od:SW602	0A (dissolved)		Prep:SW3010A	A / 06-Dec-2023	Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 23:33
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:33
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:33
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 23:33

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	PMW-20R	Lab ID:HS23120154-08
Collection Date:	29-Nov-2023 13:45	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:	SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 22:37
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:37
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:37
Selenium	0.00355		0.00110	0.00200	mg/L	1	07-Dec-2023 22:37
DISSOLVED METALS BY SW6020A	Metho	od:SW602	0A (dissolved)		Prep:SW3010	A / 06-Dec-2023	Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 23:35
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:35
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:35
Selenium	0.00291		0.00110	0.00200	mg/L	1	07-Dec-2023 23:35

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	MW-41	Lab ID:HS23120154-09
Collection Date:	29-Nov-2023 14:30	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 22:39
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:39
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:39
Selenium	0.00113	J	0.00110	0.00200	mg/L	1	07-Dec-2023 22:39
DISSOLVED METALS BY SW6020A	Metho	od:SW60	20A (dissolved)		Prep:SW3010A	A / 06-Dec-2023	Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 23:37
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:37
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:37
Selenium	U		0.00110	0.00200	ma/L	1	07-Dec-2023 23:37

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	MW-47	Lab ID:HS23120154-10
Collection Date:	29-Nov-2023 15:20	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:	SW6020A		Prep:SW3010A	A / 06-Dec-2023	Analyst: MSC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 22:41
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:41
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:41
Selenium	0.00486		0.00110	0.00200	mg/L	1	07-Dec-2023 22:41
DISSOLVED METALS BY SW6020A	Metho	od:SW602	0A (dissolved)		Prep:SW3010	A / 06-Dec-2023	Analyst: JC
Arsenic	U		0.000400	0.00200	mg/L	1	07-Dec-2023 23:39
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:39
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:39
Selenium	0.00333		0.00110	0.00200	mg/L	1	07-Dec-2023 23:39

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-9R	Lab ID:HS23120154-11
Collection Date:	30-Nov-2023 08:15	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	SW6020A		Prep:SW3010A	/ 06-Dec-2023	Analyst: MSC
Arsenic	0.000717	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:44
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:44
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:44
Selenium	0.00210		0.00110	0.00200	mg/L	1	07-Dec-2023 22:44
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 06-Dec-2023	Analyst: JC
Arsenic	0.000918	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:41
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:41
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:41
Selenium	U		0.00110	0.00200	mg/L	1	07-Dec-2023 23:41

Client:	WSP Golder	ANALYTICAL REPORT
Project:	Frisco CDC GW North CAMU	WorkOrder:HS23120154
Sample ID:	LMW-22	Lab ID:HS23120154-12
Collection Date:	30-Nov-2023 08:55	Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method	:SW6020A		Prep:SW3010A	/ 06-Dec-2023	Analyst: MSC
Arsenic	0.00142	J	0.000400	0.00200	mg/L	1	07-Dec-2023 22:46
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 22:46
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 22:46
Selenium	0.00279		0.00110	0.00200	mg/L	1	07-Dec-2023 22:46
DISSOLVED METALS BY SW6020A	Meth	od:SW60	20A (dissolved)		Prep:SW3010A	/ 06-Dec-2023	Analyst: JC
Arsenic	0.00132	J	0.000400	0.00200	mg/L	1	07-Dec-2023 23:43
Cadmium	U		0.000200	0.00200	mg/L	1	07-Dec-2023 23:43
Lead	U		0.000600	0.00200	mg/L	1	07-Dec-2023 23:43
Selenium	0.00116	J	0.00110	0.00200	ma/L	1	07-Dec-2023 23:43

HS23120154-08

HS23120154-09

HS23120154-10

HS23120154-11

HS23120154-12

## Client: WSP Golder Project: Frisco CDC GW North CAMU WorkOrder: HS23120154

Batch ID: 204439		Start Date	e: 06 Dec 202	23 08:30	End Date: 06 Dec 2023 08:30
Method: WATER - SW3010A					Prep Code: 3010A
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23120154-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-07		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-08		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-09		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-10		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-11		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-12		10 (mL)	10 (mL)	1	120 plastic HNO3
Batch ID: 204445		Start Date	e: 06 Dec 20	23 12:30	End Date: 06 Dec 2023 12:30
Method: DISS METALS F	R - SW3010A			Prep Code: 3010A DISS	
Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23120154-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-06		10 (mL)	10 (mL)	1	120 plastic HNO3
HS23120154-07		10 (mL)	10 (mL)	1	120 plastic HNO3

10 (mL)

# Weight / Prep Log

Date: 08-Dec-23

120 plastic HNO3

1

1

1

1

1
DATES REPORT

### Client:WSP GolderProject:Frisco CDC GW North CAMUWorkOrder:HS23120154

Sample ID	Client Samp I	D Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 204439	9(0) <b>T</b>	est Name : ICP-MS METALS BY S	V6020A		Matrix: Groundw	ater
HS23120154-01	MW-45	29 Nov 2023 09:45		06 Dec 2023 08:30	07 Dec 2023 21:52	1
HS23120154-02	PMW-19R	29 Nov 2023 10:20		06 Dec 2023 08:30	07 Dec 2023 22:18	1
HS23120154-03	LMW-8	29 Nov 2023 11:05		06 Dec 2023 08:30	07 Dec 2023 22:20	1
HS23120154-04	LMW-17	29 Nov 2023 11:40		06 Dec 2023 08:30	07 Dec 2023 22:23	1
HS23120154-05	LMW-5	29 Nov 2023 12:15		06 Dec 2023 08:30	07 Dec 2023 22:25	1
HS23120154-06	LMW-21	29 Nov 2023 12:55		06 Dec 2023 08:30	07 Dec 2023 22:27	1
HS23120154-07	DUP-01	29 Nov 2023 12:15		06 Dec 2023 08:30	07 Dec 2023 22:30	1
HS23120154-08	PMW-20R	29 Nov 2023 13:45		06 Dec 2023 08:30	07 Dec 2023 22:37	1
HS23120154-09	MW-41	29 Nov 2023 14:30		06 Dec 2023 08:30	07 Dec 2023 22:39	1
HS23120154-10	MW-47	29 Nov 2023 15:20		06 Dec 2023 08:30	07 Dec 2023 22:41	1
HS23120154-11	LMW-9R	30 Nov 2023 08:15		06 Dec 2023 08:30	07 Dec 2023 22:44	1
HS23120154-12	LMW-22	30 Nov 2023 08:55		06 Dec 2023 08:30	07 Dec 2023 22:46	1
Batch ID: 20444	5(0) <b>T</b>	est Name : DISSOLVED METALS E	3Y SW6020A		Matrix: Groundw	ater
HS23120154-01	MW-45	29 Nov 2023 09:45		06 Dec 2023 12:30	07 Dec 2023 23:01	1
HS23120154-02	PMW-19R	29 Nov 2023 10:20		06 Dec 2023 12:30	07 Dec 2023 23:20	1
HS23120154-03	LMW-8	29 Nov 2023 11:05		06 Dec 2023 12:30	07 Dec 2023 23:22	1
HS23120154-04	LMW-17	29 Nov 2023 11:40		06 Dec 2023 12:30	07 Dec 2023 23:24	1
HS23120154-05	LMW-5	29 Nov 2023 12:15		06 Dec 2023 12:30	07 Dec 2023 23:26	1
HS23120154-06	LMW-21	29 Nov 2023 12:55		06 Dec 2023 12:30	07 Dec 2023 23:28	1
HS23120154-07	DUP-01	29 Nov 2023 12:15		06 Dec 2023 12:30	07 Dec 2023 23:33	1
HS23120154-08	PMW-20R	29 Nov 2023 13:45		06 Dec 2023 12:30	07 Dec 2023 23:35	1
HS23120154-09	MW-41	29 Nov 2023 14:30		06 Dec 2023 12:30	07 Dec 2023 23:37	1
HS23120154-10	MW-47	29 Nov 2023 15:20		06 Dec 2023 12:30	07 Dec 2023 23:39	1
HS23120154-11	LMW-9R	30 Nov 2023 08:15		06 Dec 2023 12:30	07 Dec 2023 23:41	1
HS23120154-12	LMW-22	30 Nov 2023 08:55		06 Dec 2023 12:30	07 Dec 2023 23:43	1

Work	WorkOrder: HS23120154				ME	<b>METHOD DETECTION /</b>			
Instru	umentID:	ICPMS06			R	EPORTING LI	MITS		
Test	Code:	ICP_DISS							
Test	Test Number: SW6020A (dissolved)				Lla	ite, ma/l			
Test	Name:	Dissolved Metals by SW6	6020A	Matrix: Aqueous					
Туре	Analyte		CAS	DCS Spike	DCS	MDL	PQL		
А	Arsenic		7440-38-2	0.00125	0.000519	0.000400	0.00200		
А	Cadmium		7440-43-9	0.000500	0.000494	0.000200	0.00200		
А	Lead		7439-92-1	0.00125	0.000573	0.000600	0.00200		
А	Selenium		7782-49-2	0.00250	0.000457	0.00110	0.00200		

Selenium

А

0.00200

0.00110

0.00321

0.00250

Work(	Order:	HS23120154			MET	HOD DETEC	TION /
Instru	mentID:	ICPMS07			RE	PORTING LI	MITS
Test C	Code:	ICP_TW					
Test Number: SW602		SW6020A		Motrix, Aqueous	Uni	na ma/l	
Test N	Name:	ICP-MS Metals by SW6020A			Uni	IS: Ing/L	
Туре	Analyte		CAS	DCS Spike	DCS	MDL	PQL
А	Arsenic		7440-38-2	0.00125	0.00132	0.000400	0.00200
А	Cadmium		7440-43-9	0.000500	0.000594	0.000200	0.00200
А	Lead		7439-92-1	0.00125	0.00124	0.000600	0.00200

7782-49-2

QC BATCH REPORT

# Client:WSP GolderProject:Frisco CDC GW North CAMUWorkOrder:HS23120154

Batch ID:	204439 ( 0 )	Instrun	nent:	ICPMS07	М	ethod: I	CP-MS MET	ALS BY SWE	6020A
MBLK	Sample ID:	MBLK-204439		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	3 21:47
Client ID:		Run	D: ICPI	MS07_453459	SeqNo: 7	714319	PrepDate:	06-Dec-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		U	0.00200						
Cadmium		U	0.00200						
Lead		U	0.00200						
Selenium		0.001453	0.00200						J
LCS	Sample ID:	LCS-204439		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	3 21:50
Client ID:		Run	D: ICPI	MS07_453459	SeqNo: 7	714320	PrepDate:	06-Dec-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04706	0.00200	0.05	0	94.1	80 - 120		
Cadmium		0.04619	0.00200	0.05	0	92.4	80 - 120		
Lead		0.04623	0.00200	0.05	0	92.5	80 - 120		
Selenium		0.04836	0.00200	0.05	0	96.7	80 - 120		
MS	Sample ID:	HS23120154-01MS		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	3 21:57
Client ID:	MW-45	Run	D: ICPI	MS07_453459	SeqNo: 7	714323	PrepDate:	06-Dec-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04881	0.00200	0.05	0.000303	97.0	80 - 120		
Cadmium		0.04802	0.00200	0.05	0.000003	96.0	80 - 120		
Lead		0.04735	0.00200	0.05	0.000102	94.5	80 - 120		
Selenium		0.05336	0.00200	0.05	0.001988	103	80 - 120		
MSD	Sample ID:	HS23120154-01MSD		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	3 21:59
Client ID:	MW-45	Run	D: ICPI	MS07_453459	SeqNo: 7	714324	PrepDate:	06-Dec-2023	DF: <b>1</b>
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic		0.04816	0.00200	0.05	0.000303	95.7	80 - 120	0.04881	1.33 20
Cadmium		0.0457	0.00200	0.05	0.000003	91.4	80 - 120	0.04802	4.94 20
Lead		0.04582	0.00200	0.05	0.000102	91.4	80 - 120	0.04735	3.3 20
Selenium		0.04853	0.00200	0.05	0.001988	93.1	80 - 120	0.05336	9.49 20

QC BATCH REPORT

# Client:WSP GolderProject:Frisco CDC GW North CAMUWorkOrder:HS23120154

Batch ID:	204439(0)	I	nstrument:	ICPMS07	Μ	lethod: I	CP-MS MET	ALS BY SW6	020A	
PDS	Sample ID:	HS23120154-0 <sup>-</sup>	1PDS	Unit	s: <b>mg/L</b>	Ana	alysis Date:	07-Dec-2023	22:02	
Client ID:	MW-45		Run ID:	ICPMS07_453459	SeqNo:	7714310	PrepDate:	06-Dec-2023	DF	1
Analyte		Result	N	IQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic		0.100	6 0.002	200 0.1	0.000303	100	75 - 125			
Cadmium		0.09384	4 0.002	200 0.1	0.000003	93.8	75 - 125			
Lead		0.09409	0.00	200 0.1	0.000102	94.0	75 - 125			
Selenium		0.10	5 0.002	200 0.1	0.001988	103	75 - 125			
SD	Sample ID:	HS23120154-0	1SD	Unit	s: <b>mg/L</b>	Ana	alysis Date:	07-Dec-2023	21:54	
<b>SD</b> Client ID:	Sample ID: MW-45	HS23120154-0	<b>1SD</b> Run ID:	Unit ICPMS07_453459	s: <b>mg/L</b> SeqNo: <sup>-</sup>	Ana 7714322	alysis Date: PrepDate:	07-Dec-2023 06-Dec-2023	<b>21:54</b> DF:	: 5
<b>SD</b> Client ID: Analyte	Sample ID: MW-45	HS23120154-0 Result	ISD Run ID: I	Unit I <b>CPMS07_453459</b> IQL SPK Val	s: <b>mg/L</b> SeqNo: <sup>:</sup> SPK Ref Value	Ana 7714322 %REC	alysis Date: PrepDate: Control Limit	<b>07-Dec-2023</b> <b>06-Dec-2023</b> RPD Ref Value	<b>21:54</b> DF: %D	: <b>5</b> %D Limit Qual
SD Client ID: Analyte Arsenic	Sample ID: MW-45	HS23120154-0 Result	1SD Run ID:    N J 0.0	Unit ICPMS07_453459 IQL SPK Val	s: <b>mg/L</b> SeqNo: <sup>:</sup> SPK Ref Value	Ana 7714322 %REC	alysis Date: PrepDate: Control Limit	07-Dec-2023 06-Dec-2023 RPD Ref Value 0.000303	<b>21:54</b> DF: %D	: <b>5</b> %D Limit Qual
SD Client ID: Analyte Arsenic Cadmium	Sample ID: MW-45	HS23120154-0 Result	1SD Run ID: M J 0.0 J 0.0	Unit ICPMS07_453459 IQL SPK Val 100	s: <b>mg/L</b> SeqNo:` SPK Ref Value	Ana 7714322 %REC	alysis Date: PrepDate: Control Limit	07-Dec-2023 06-Dec-2023 RPD Ref Value 0.000303 0.000003	<b>21:54</b> DF: %D	5 %D Limit Qual 0 10 0 10
SD Client ID: Analyte Arsenic Cadmium Lead	Sample ID: MW-45	HS23120154-0 Result	ISD Run ID:   M J 0.0 J 0.0 J 0.0	Unit ICPMS07_453459 IQL SPK Val 100 100	s: <b>mg/L</b> SeqNo: <sup>-</sup> SPK Ref Value	Ana 7714322 %REC	alysis Date: PrepDate: Control Limit	07-Dec-2023 06-Dec-2023 RPD Ref Value 0.000303 0.000003 0.000102	21:54 DF: %D	5 %D Limit Qual 0 10 0 10 0 10
SD Client ID: Analyte Arsenic Cadmium Lead Selenium	Sample ID: MW-45	HS23120154-0 Result	ISD Run ID: M J 0.0 J 0.0 J 0.0 J 0.0 J 0.0	Unit ICPMS07_453459 IQL SPK Val 100 100 100	s: <b>mg/L</b> SeqNo:` SPK Ref Value	Ana 7714322 %REC	alysis Date: PrepDate: Control Limit	07-Dec-2023 06-Dec-2023 RPD Ref Value 0.000303 0.000003 0.000102 0.001988	21:54 DF %D	5 %D Limit Qual 0 10 0 10 0 10 0 10 0 10

#### 29 of 37

**QC BATCH REPORT** 

Client:	WSP Golder
Project:	Frisco CDC GW North CAMU
WorkOrder:	HS23120154

Batch ID:	204445 ( 0 )	Instru	ument: I	CPMS06	Met	hod:	DISSOLVED METAL (DISSOLVED)	S BY SW6020A
MBLK	Sample ID:	MBLKF1-204445		Units:	mg/L	An	alysis Date: 07-Dec	-2023 22:57
Client ID:		Ru	n ID: ICPM	S06_453464	SeqNo: 77	14733	PrepDate: 06-Dec	-2023 DF: 1
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control RPI Limit Va	D Ref RPD alue %RPD Limit Qual
Arsenic		U	0.00200					
Cadmium		U	0.00200					
Lead		U	0.00200					
Selenium		U	0.00200					
MBLK	Sample ID:	MBLK-204445		Units:	mg/L	An	alysis Date: 07-Dec	-2023 22:55
Client ID:		Ru	n ID: ICPM	S06_453464	SeqNo: 77	14732	PrepDate: 06-Dec	-2023 DF: 1
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control RPI Limit Va	D Ref RPD alue %RPD Limit Qual
Arsenic		U	0.00200					
Cadmium		U	0.00200					
Lead		U	0.00200					
Selenium		U	0.00200					
LCS	Sample ID:	LCS-204445		Units:	mg/L	An	alysis Date: 07-Dec	-2023 22:59
Client ID:		Ru	n ID: ICPM	S06_453464	SeqNo: 77	14734	PrepDate: 06-Dec	-2023 DF: 1
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control RPI Limit Va	D Ref RPD alue %RPD Limit Qual
Arsenic		0.04556	0.00200	0.05	0	91.1	80 - 120	
Cadmium		0.04862	0.00200	0.05	0	97.2	80 - 120	
Lead		0.04748	0.00200	0.05	0	95.0	80 - 120	
Selenium		0.04571	0.00200	0.05	0	91.4	80 - 120	
мѕ	Sample ID:	HS23120154-01MS		Units:	mg/L	An	alysis Date: 07-Dec	-2023 23:04
Client ID:	MW-45	Ru	n ID: ICPM	S06_453464	SeqNo: 77	14737	PrepDate: 06-Dec	-2023 DF: 1
Analyte		Result	MQL	SPK Val	SPK Ref Value	%REC	Control RPI Limit Va	D Ref RPD alue %RPD Limit Qual
Arsenic		0.04638	0.00200	0.05	0.000328	92.1	75 - 125	
Cadmium		0.04701	0.00200	0.05	0.000001	94.0	75 - 125	
Lead		0.0482	0.00200	0.05	0.000004	96.4	75 - 125	
Selenium		0.0475	0.00200	0.05	0.001393	92.2	75 - 125	

#### ALS Houston, US

Date: 0	8-Dec-23
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# Client:WSP GolderProject:Frisco CDC GW North CAMUWorkOrder:HS23120154

Batch ID:	204445 ( 0 )	Instrume	nt: IC	PMS06	м	ethod: [	DISSOLVED	METALS BY	SW602	20A
MSD	Sample ID:	HS23120154-01MSD		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	23:06	
Client ID:	MW-45	Run ID		06_453464	SeqNo: 7	7714738	PrepDate:	06-Dec-2023	DF	5:1
				-	SPK Ref		Control	RPD Ref		RPD
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit Qual
Arsenic		0.04761 0.	00200	0.05	0.000328	94.6	75 - 125	0.04638	2.6	63 20
Cadmium		0.04794 0.	00200	0.05	0.000001	95.9	75 - 125	0.04701	1.9	96 20
Lead		0.04821 0.	00200	0.05	0.000004	96.4	75 - 125	0.0482	0.020	07 20
Selenium		0.04846 0.	00200	0.05	0.001393	94.1	75 - 125	0.0475		2 20
PDS	Sample ID:	HS23120154-01PDS		Units:	mg/L	Ana	alysis Date:	07-Dec-2023	23:08	
Client ID:	MW-45	Run ID		06_453464	SeqNo: 7	714739	PrepDate:	06-Dec-2023	DF	<b>-</b> ∷1
				-	SPK Ref		Control	RPD Ref		RPD
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit Qual
Arsenic		0.09378 0.	00200	0.1	0.000328	93.4	75 - 125			
Cadmium		0.09781 0.	00200	0.1	0.000001	97.8	75 - 125			
Lead		0.09584 0.	00200	0.1	0.000004	95.8	75 - 125			
Selenium		0.09513 0.	00200	0.1	0.001393	93.7	75 - 125			
SD	Sample ID:	HS23120154-01SD		Units:	ma/L	Ana	alvsis Date:	07-Dec-2023	23:02	
Client ID:	MW-45	Run ID		06 453464	SeaNo: 7	714736	PrepDate:	06-Dec-2023	DF	-: 5
					SPK Ref		Control	RPD Ref		%D
Analyte		Result	MQL	SPK Val	Value	%REC	Limit	Value	%D	Limit Qual
Arsenic		U (	0.0100					0.000328		0 10
Cadmium		U (	0.0100					0.000001		0 10
Lead		U	0.0100					0.000004		0 10
Selenium		U	0.0100					0.001393		0 10
The following	g samples were analyz	ed in this batch: HS2312015 HS2312015 HS2312015	54-01 54-05 54-09	HS2312015 HS2312015 HS2312015	4-02 4-06 4-10	HS231201 HS231201 HS231201	54-03 54-07 54-11	HS23120154- HS23120154- HS23120154-	04 08 12	

#### QC BATCH REPORT

#### ALS Houston, US

Client:	WSP Golder	QUALIFIERS			
Project:	Frisco CDC GW North CAMU	ACRONYMS, UNITS			
WorkOrder:	HS23120154				
Qualifier	Description				
*	Value exceeds Regulatory Limit				
а	Not accredited				
В	Analyte detected in the associated Method Blank above the Reporting Limit				
E	Value above quantitation range				
Н	Analyzed outside of Holding Time				
J	Analyte detected below quantitation limit				
Μ	Manually integrated, see raw data for justification				
n	Not offered for accreditation				
ND	Not Detected at the Reporting Limit				
0	Sample amount is > 4 times amount spiked				
Р	Dual Column results percent difference > 40%				
R	RPD above laboratory control limit				
S	Spike Recovery outside laboratory control limits				
U	Analyzed but not detected above the MDL/SDL				
Acronym	Description				
DCS	Detectability Check Study				
DUP	Method Duplicate				
LCS	Laboratory Control Sample				
LCSD	Laboratory Control Sample Duplicate				
MBLK	Method Blank				
MDL	Method Detection Limit				
MQL	Method Quantitation Limit				
MS	Matrix Spike				
MSD	Matrix Spike Duplicate				
PDS	Post Digestion Spike				
PQL	Practical Quantitaion Limit				
SD	Serial Dilution				
SDL	Sample Detection Limit				
TRRP	Texas Risk Reduction Program				

#### CERTIFICATIONS, ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Work Order ID: Client Name:	HS23120154 Golder St Louis		Date/ Recei	Time Received: ived by:	<u>01-Dec-2023 10:45</u> Paresh M. Giga
Completed By:	/S/ Belinda Gomez	04-Dec-2023 12:53	Reviewed by: /S/	Tyler Monroe	05-Dec-2023 19:42
	eSignature	Date/Time		eSignature	Date/Time
Matrices:	w		Carrier name:	<u>FedEx</u>	
Shipping contain Custody seals in Custody seals in VOA/TX1005/T> Chain of custody Chain of custody Samplers name Chain of custody Samples in prop Sample containe Sufficient sample All samples rece	ner/cooler in good condition? ntact on shipping container/coole ntact on sample bottles? K1006 Solids in hermetically seal y present? y signed when relinquished and r present on COC? y agrees with sample labels? per container/bottle? ers intact? e volume for indicated test? eived within holding time?	r? ed vials? eceived?	Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves V	No	Not Present Not Present Not Present 2 Page(s) COC IDs:307472,307471
Temperature(s)/	/Thermometer(s):		1.4uc/1.3c		ir31
Cooler(s)/Kit(s):			50750		
Date/Time samp	ble(s) sent to storage:		12/4/23 1254		
Water - VOA via Water - pH acce pH adjusted? pH adjusted by: Login Notes:	als have zero headspace?		Yes Yes Yes	No 🚺 I No 🚺 No 🗹	No VOA vials submitted  N/A N/A N/A
Client Contacted	d:	Date Contacted:		Person Con	tacted:
Contacted By:		Regarding:			
Comments:					]
Corrective Actio	n:				

Sample Receipt Checklist

(	+1 513 733 5 ALS Everett, WA +1 425 356 2	UH Fort Collins, 5336 +1 970 490 1 600 Holland, MI +1 616 399 60	Chain of Cus	stody Form	Houston, +1 281 530 5655	
	Customer Information		COC ID: 2		Middletown, PA	Salt tal.
Purchase Order	GI 20400000		ALS Project	01412	541	+1 801 266 7700
Work Order		Project	Project Information	t Manager:		
Company Name	1.6	n toject Name	Frisco CDC GW North		Parameter	Work Order #:
Send Parata	WSP Golder	Froject Number	GL204Doneso	IU A ICP T	MUT CALL	thod Request for Analysis
-ond heport To	Vvilliam Wedge	Bill To Company	WSP Cidde	BICDD	evi Iotal As, Cd, Pb	, Se)
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- adiess	Curre 250		Toward Payable WSP	- FILTRA	TION - METALS	FIFID CH
City/State/Zip	Crowne	Address	701 Emerson Road Suite 250	" MS	MSD	TICLD FILTERED
DL	Creve Coeur, MO 63141		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	E		
rnone	(314) 984-8800	City/State/Zip	Creve Coourses	F		
Fax		Phone	214) OD 00001 MO 63141	G		
Mail Address	Milliam Wedane	P***	574) 984-8800			
	Samula n	rax				
M	Vample Description	e-Mail Address	ISENVAccountspayable			
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<u> </u>	W-11	1105	641	XXX		
CM	W-5	1140	(II)			
Lmu	12-21	1215	6W 2	VVV		
TU		1213	6W 2			
DVI Om:		1255	GW			
FINK	2-20R	1215	(11) 2	XXX		
mw.	-41	1245	EN 2	XXV	İ	
mw.	-11-7	1120	60 2	JAA		
(s) Please Print & Sig	gn A	1750	6W 3	XAX		
IN. DRAYT	DAL DO	1520	GW	XXX		
ed by	punc	FEDEV	Required Turner	XXV		
ed by:	1-30-22 Time: 1 2	D BOA	STD 10 MAR C	(Check Box)		
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oratoryj:	Date:	Received by (Labo	ratory	Notes: Frism Dr.	ays 24 Hour	
ve Key: 1-HCI	Time:	Checked by // ch	211/23 10:45	Cooler ID Cooler ID	xcavation	
Y changes	Z-HNO3 3-H2SO4 4-NOH	(EdDOr;	atory):	Cooler 1	emp. QC Package: (Ch	CC Ono D
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c chain of Custody is	s a legal document A line provided by AT	have been submitted to A	1 c p		Level III Still	CARaw Chate
	information must be co	mpleted accurate	pressly limited to a		Level IV SING	BICLP FRP Level IV
		ut atery.	to the terms and con	avēšat .	Law second	

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	Customer Information				COC ID:	3074	71	+ j	717 944 5541	Salt Lake Chy, +1 801 266 7700
Purchase Order	GI 204000cha			Project Inc	ALS Proj	ect Manag	er:			
Work Order			Project Name		rmation				AL	S Work Order #:
Company Name	MEDOW		Project Number		GVV North C/	AMU	A	LICE THE	arameter/M	ethod Request for Analysis
Send Report To	Wor Golder		Bill To Company	GL2040906	201		8	IOF IVV (To	tal As, Cd, Pl	b, Sej
	704 m		Invoice Au	WSP Golder				ICP DISS (C	issolved As.	Cd, Pb, Sei
Address	FUT Emerson Road Suite	250	invoice Attn	Accounts Pa	yable WSP		+	FILTRATION	- METALS	FIFIA GUDDADD
City/State/Zip	Creve Coeur Mo. com		Address	701 Emerson	Road Suite 2	250	E			FICIEREI)
Phone	(314) 984 9800		City/State/Zip	Cravo O-			F			
Fax	(		Phone	Cieve Coeur I	NO 63141		G		The strategy of the strategy o	
-Mail Address	Allion 164		Fax	1314) 984-880	0		H			
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lm	H.)_AP		Date Tim	USENVAccoun	tspayable@w	/sp.com				
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r(s) Blease Print & S MDEAY IDN	ign L APm		0-23 085	S GW		2				HS23120154
Laboratory):	Date:	3 Time: 163	Received by: Received to (L	2 STD aboratory):	10 Wk Deys	Notes:	Box) /s Fris	Cither 2 Wir Days	24 Ho	Results Due Date:
tive Key: 1-HCl	Date: 2-HNO <sub>3</sub> 3-H <sub>2</sub> SO <sub>4</sub> 4-	Time: VaOH 5-Na.	Checked by (La	12/11/23.	10:45	. Cool	ler ID	Cooler Temp.	ation	(Check One Box Below)
Inless otherwise agree he Chain of Custody	made in writing once samples a ed in a formal contract, services is a legal document. All inform:	nd COC Form I provided by AI ation must be co	ave been submitted S Environmental ar mpleted accurately.	7-Other to ALS Environme e expressly limited	<b>I-4°C 9-50</b> ental. to the terms ar	35	stated	OB the revence	Level IV : Concerning	St.I QC/Faw Date RRP Checklist SM&&CLP



1

APPENDIX D

Data Usability Summaries



### DATA USABILITY SUMMARY ALS WORK ORDERS: HS23120154 and HS23090922

PROJECT NO: 2040906205.000

CLIENT: Frisco Community Development Corporation

- SAMPLE DATES: September 11 and 12, 2023 November 29 and 30, 2023
- LABORATORY: ALS Group
- WORK ORDERS: HS23090922 and HS23120154
- INTENDED USE: Second Semiannual 2023 Groundwater Monitoring Report
   SITE: Frisco Community Development Corporation Site, 7471 Old 5<sup>th</sup> Street, Frisco, TX

#### **TESTS/METHODS**

SW-846 6020A - Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)

#### SAMPLES

Eleven groundwater samples, one matrix spike and matrix spike duplicate sample, and one field duplicate sample were collected in September and November 2023 for the analyses of total and dissolved metals: arsenic, cadmium, lead, selenium. See Table 1 for the sample list.

WSP completed a review of the chemical analysis data for conformance with the requirements of the Texas Risk Reduction Program (TRRP) guidance document, Review and Reporting of COC Concentration Data (RGG-366/TRRP-13 Revised May 2010) and for adherence to project objectives. The results of the review are discussed in this data usability summary (DUS). WSP completed the review using the following laboratory and project submittals:

- Laboratory reportable data as defined in TRRP-13;
- Laboratory review checklists (LRC) with the associated exception reports;
- Laboratory Electronic Data Deliverable (EDD); and
- Project field notes from the sampling event.

The review of the reportable data included the quality control (QC) parameters listed below, as required per TRRP-13, using the applicable analytical method and project requirements:

- Data Completeness
- Chain-of-Custody Procedures
- Sample Condition

- Field Procedures
- Results Reporting Procedures
- Field and Laboratory Blanks
- Laboratory Control Sample (LCS)
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries
- Field Duplicate Precision
- Detectability Check Sample (DCS)

Additionally, WSP used the LRC to evaluate the following QC parameters:

- Method Quantitation Limits (MQLs)
- Method Detection Limits (MDLs) and Sample Detection Limits (SDLs)
- Instrument Tuning, Calibration, and Performance
- Internal Standards

Criteria used for this data usability review are as follows:

- Precision: ±MQL difference or 30% relative percent difference (RPD) for laboratory duplicates and ± 2x MQL difference (if either result is less than 5x MQL) or 30% RPD for field duplicates as recommended in TRRP-13
- Accuracy: 70-130% spike recovery (and not less than 30% or data is rejected) as recommended in TRRP-13

If an item was found outside of the review criteria, the reviewer applied a data qualifier and bias code to the results for the affected samples in accordance with TRRP-13.

#### LABORATORY CERTIFICATION

At the time the laboratory data were generated for this project, the laboratory was NELAC accredited under the Texas Laboratory Accreditation Program (TLAP Certification T104704231) for the matrices, methods and parameters of analysis requested on the chain-of-custody forms.

#### **USABILITY SUMMARY**

Data are usable for the intended purpose. Data were qualified due to exceedances of quality control criteria and analyte detected in quality control blank. (Table 2).

Preparer:	Kayla Fichtel	12/19/2023
Senior Reviewer:	Brenda Basile	12/19/2023

#### **QUALITY CONTROL PARAMETERS AND OUTCOMES**

#### **Data Completeness**

The laboratory data package contains necessary data (i.e., the laboratory reportable data per TRRP-13) and the EDD contains sample results in acceptable format.

#### Chain-of-Custody

Proper sample custody procedures were used, which confirms that the integrity of the samples was maintained. The information on the custody records is complete and agrees with that in the field notes and laboratory reports.

#### **Sample Condition**

Samples were collected in appropriate containers, properly preserved in the field, and prepared and analyzed within the holding times as required in the analytical method. No data were qualified.

#### **Field Procedures**

The samples were collected and placed immediately into laboratory supplied containers and then into a cooler with ice for overnight delivery to the laboratory.

According to the Work Plan, groundwater samples with turbidity greater than 10 nephelometric turbidity units (NTU) would be field filtered with a 10-micron filter for analyses of total metals. None of the groundwater samples collected had a turbidity greater than 10 NTU during this sampling event. For dissolved metals, samples were field filtered with a 0.45-micron filter. According to the Groundwater Sample Collection Forms, samples were filtered appropriately.

#### **Results Reporting Procedures**

Water results are reported in milligrams per liter (mg/L). Non-detects are reported using the SDL as specified per TRRP and detects between the SDL and MQL are reported with a laboratory J-flag. The concentration reported for detects between the SDL and MQL is below the calibration range and thus is considered estimated.

The dissolved metals concentrations were slightly above the total metal concentration in some samples as shown on Table 3. Total and dissolved concentrations were evaluated using a criteria of 30 RPD or less than two times the MQL as shown in Table 3. Qualified data are listed in Table 2.

#### Laboratory Blanks

Method blank and continuing calibration blank data provided by the laboratory were evaluated. Sample data associated with method blank data are qualified if the sample concentration is within five times the blank concentration. Sample data associated with continuing calibration blank data are qualified if the analyte is detected above the MDL and the sample concentration is detected. If data is qualified as estimated based on accuracy or precision criteria that was not met, the data is qualified with both a J-flag and a U-flag. Qualified data are shown on Table 2.

#### Laboratory Control Sample

The LCS recoveries (%R) are within the TRRP-13 recommended criteria of 80 -120 percent recovery (%R).

#### Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

WSP submitted one MS/MSD for each sampling event (MW-45). The MS/MSD recoveries were within the TRRP-13 recommended criteria of 70-130% R. Precision was within the TRRP-13 recommended criteria of 30 RPD. The post-digestion spike recovery was within the TRRP-13 recommended criteria of 70-130% R. The serial dilution percent difference was within the method criteria of 10% difference.

#### **Field Duplicate Precision**

One field duplicate was collected for each sample event (LMW-5/DUP-01). Field duplicate results are presented in Table 5. Samples and COCs with duplicate with these samples precision were within the TRRP-13 recommended criteria of 30 RPD or less than two times the MQL as shown in Table 5.

#### **Detectability Check Standards (DCS)**

DCS data were provided in the laboratory report. DCS results support the SDLs in the laboratory report.

#### Instrument Tuning and Performance

According to the LRC, instrument tuning and interference check sample results met method requirements and therefore no data qualification was warranted.

#### Instrument Calibration

According to the LRC, calibrations were acceptable.

#### **Internal Standards**

According to the LRC, internal standard areas were acceptable.

### Table 1 Cross-reference of Field Sample Identification and Laboratory Identifications Frisco CDC GW North CAMU

Lab Sample Identification	Field Sample Identification	Sample Date	Total/Dissolved Metals	Comments
HS23090922-01	MW-45	9/11/2023	✓	Matrix Spike/Matrix Spike Duplicate
HS23090922-02	PMW-19R	9/11/2023	✓	
HS23090922-03	LMW-8	9/11/2023	$\checkmark$	
HS23090922-04	LMW-17	9/11/2023	$\checkmark$	
HS23090922-05	LMW-5	9/11/2023	$\checkmark$	
HS23090922-06	LMW-21	9/11/2023	$\checkmark$	
HS23090922-07	PMW-20R	9/11/2023	$\checkmark$	
HS23090922-08	MW-41	9/11/2023	$\checkmark$	
HS23090922-09	MW-47	9/11/2023	$\checkmark$	
HS23090922-10	LMW-9R	9/12/2023	$\checkmark$	
HS23090922-11	LMW-22	9/12/2023	$\checkmark$	
HS23090922-12	DUP-01	9/11/2023	$\checkmark$	Field duplicate of LMW-5
HS23120154-01	MW-45	11/29/2023	$\checkmark$	Matrix Spike/Matrix Spike Duplicate
HS23120154-02	PMW-19R	11/29/2023	$\checkmark$	
HS23120154-03	LMW-8	11/29/2023	$\checkmark$	
HS23120154-04	LMW-17	11/29/2023	$\checkmark$	
HS23120154-05	LMW-5	11/29/2023	$\checkmark$	
HS23120154-06	LMW-21	11/29/2023	$\checkmark$	
HS23120154-07	DUP-01	11/29/2023	$\checkmark$	Field duplicate of LMW-5
HS23120154-08	PMW-20R	11/29/2023	$\checkmark$	
HS23120154-09	MW-41	11/29/2023	$\checkmark$	
HS23120154-10	MW-47	11/29/2023	$\checkmark$	
HS23120154-11	LMW-9R	11/30/2023	$\checkmark$	
HS23120154-12	LMW-22	11/30/2023	✓	

#### Table 2 Qualified Data Frisco CDC GW North CAMU

Field Sample ID	Lab Sample ID	Analyte	Result	Units	Qualifier	Explanation
LMW-21	HS23090922-06	Lead, total	0.00303	mg/L	J	Dissolved concentration greater than total concentration
LMW-21	HS23090922-06	Lead, dissolved	0.00827	mg/L	J	Dissolved concentration greater than total concentration
MW-45	HS23120154-01	Selenium, total	0.00199	mg/L	U	Analyte detected in quality control blank
PMW-19R	HS23120154-02	Selenium, total	0.00340	mg/L	U	Analyte detected in quality control blank
LMW-17	H23120154-04	Selenium, total	0.00233	mg/L	U	Analyte detected in quality control blank
LMW-5	HS23120154-05	Selenium, total	0.00229	mg/L	U	Analyte detected in quality control blank
LMW-21	HS23120154-06	Selenium, total	0.00597	mg/L	U	Analyte detected in quality control blank
DUP-01	HS23120154-07	Selenium, total	0.00224	mg/L	U	Analyte detected in quality control blank
PMW-20R	HS23120154-08	Selenium, total	0.00355	mg/L	U	Analyte detected in quality control blank
MW-41	HS23120154-09	Selenium, total	0.00113	mg/L	U	Analyte detected in quality control blank
MW-47	HS23120154-10	Selenium, total	0.00486	mg/L	U	Analyte detected in quality control blank
LMW-9R	HS23120154-11	Selenium, total	0.0021	mg/L	U	Analyte detected in quality control blank
LMW-22	HS23120154-12	Selenium, total	0.00279	mg/L	U	Analyte detected in quality control blank

#### Notes:

J - Estimated data; data are qualified due to exceedance of one or more quality control criteria. The reported sample concentration is the approximate concentration of the analyte in the sample.

U - Analyte not detected at associated concentration (column labeled as "Result").

mg/L - milligrams per liter

### Table 3 Total Versus Dissolved Comparison Frisco CDC GW North CAMU

Sample	Analyte	Total Concentration	Dissolved Concentration	Precision		
bampie	Analyte	(mg/L)	(mg/L)	(RPD)	MQL	Qualification
LMW-8 (November 2023)	Arsenic	0.000531	0.000572	7.4	0.00200	None; less than 30% RPD
LMW-5(November 2023)	Arsenic	<0.000400	0.000487	20	0.00200	None; less than 30% RPD
LMW-21(November 2023)	Arsenic	0.000499	0.000545	8.8	0.00200	None; less than 30% RPD
LMW-21 (November 2023)	Lead	<0.000600	0.000673	11	0.00200	None; less than 30% RPD
LMW-9R (November 2023)	Arsenic	0.000717	0.000918	25	0.00200	None; less than 30% RPD
PMW-19R (September 2023)	Arsenic	<0.000400	0.000454	13	0.00200	None; less than 30% RPD
LMW-8 (September 2023)	Selenium	<0.00110	0.00214	64	0.00200	None; difference less than 2 times the MQL
LMW-17 (September 2023)	Arsenic	0.000405	0.000595	38	0.00200	None; difference less than 2 times the MQL
LMW-5 (September 2023)	Arsenic	<0.000400	0.000466	15	0.00200	None; less than 30% RPD
LMW-21 (September 2023)	Arsenic	0.000707	0.000917	26	0.00200	None; less than 30% RPD
LMW-21 (September 2023)	Lead	0.00303	0.00827	93	0.00200	J
MW-41 (September 2023)	Selenium	0.00216	0.00228	5.4	0.00200	None; less than 30% RPD
MW-47 (September 2023)	Arsenic	0.00637	0.00778	20	0.00200	None; less than 30% RPD
LMW-9R (September 2023)	Arsenic	0.00238	0.00282	17	0.00200	None; less than 30% RPD
LMW-9R (September 2023)	Selenium	0.00276	0.00373	30	0.00200	None; less than 30% RPD
LMW-22 (September 2023)	Arsenic	0.00777	0.00978	23	0.00200	None; less than 30% RPD
LMW-22 (September 2023)	Lead	<0.000600	0.000916	42	0.00200	None; difference less than 2 times the MQL
DUP-01 (September 2023)	Arsenic	0.000401	0.000447	11	0.00200	None; less than 30% RPD

#### Notes:

No qualification necessary if the difference between dissolved and total did not exceed the analytical method error (i.e., + 2x MQL difference (if either result is less than 5x MQL) or 30% RPD).

mg/L - milligrams per liter

RPD - relative percent difference

MQL - Method quantitation limit

#### **TABLE 4 - BLANK DETECTIONS**

Lab Sample ID	Analyte	Result	Qualified Concentration	Units	Explanation
MBLK-204439	Selenium, total	0.001453	0.00727	mg/L	See qualifiers in Table 2
ICPMS07_453459 CCB 31	Selenium	0.001285	0.00643	mg/L	See qualifiers in Table 2
ICPMS07_453459 CCB 32	Selenium	0.001945	0.00973	mg/L	See qualifiers in Table 2

#### Notes:

mg/L - milligrams per liter

#### Table 5 Field Duplicate Precision Calculations Frisco CDC GW North CAMU

Duplicate and Parent Sample Field Identification	Analyte	Sample Result	Duplicate Result	RPD <sup>a</sup>	Qualifier	Qualifier Added
$IMW_{-}5/DIIP_{-}01$ (November 2023)	Arsenic, dissolved	0.000487 J	0.000400 U	20	A	None
	Selenium, total	0.00229	0.00224	2.2	A	None
	Arsenic, total	0.000400 U	0.000401 J	0.25	A	None
LMW-5/DUP-01 (September 2023)	Arsenic, dissolved	0.000466 J	0.000447 J	4.2	A	None
	Lead, total	0.00130 J	0.000869 J	40	A	None; absolute difference <2X MQL

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#### Notes:

<sup>a</sup> Relative Percent Difference (RPD) = ((SR - DR)\*200)/(SR + DR), where SR is the sample result and DR is the duplicate result.

A - Acceptable Data

The RPD test (<30%) applies if both results are greater than 5x MQL. Otherwise, the absolute difference test (< 2x MQL) applies.

NA - Not applicable

MQL - Method quantitation limit

mg/L - milligrams per liter

J - estimated value; detected between the MQL and SDL.

U - not detected at associated numerical value

